

地质学报, 2020 年, 第 94 卷, 总目次

第 1 期

百年勘查成果与成矿规律之集大成——首部《中国矿产地质志》研编阶段性进展概述	黄凡, 王登红, 陈毓川, 王岩, 徐志刚, 朱明玉, 陈郑辉(1)
矿床成矿系列组——六论矿床的成矿系列问题	王登红, 陈毓川, 徐志刚, 黄凡, 王岩, 裴荣富(18)
北京区域成矿规律综述	方同明, 高学泉, 刘林生, 刘旭东, 李莉, 程新彬, 何付兵, 张晓亮, 董静, 林天懿, 郭高轩(36)
天津矿产资源特征及其成矿规律	王丽瑛, 黄凡, 朵兴芳, 屠立鹏(50)
陕西区域成矿规律及其与重大成矿地质事件之关系	李维成, 董晨, 董王仓, 周小康, 陈亚伟, 朱雪丽(65)
湖北省构造演化与成矿规律探讨	李红梅, 秦志军, 简玉兵, 周少东, 李书涛, 胡忠贵, 张权绪, 余正清, 黄桂珍, 谢铭英(84)
浙江矿产时空分布规律综述	黄国成, 程海艳, 李翔, 陈小友(102)
中国银矿床地质控矿规律及若干找矿方向	江彪, 张通, 王登红, 陈毓川, 张大权, 黄崇轲, 白鸽, 王成辉, 黄凡(113)
湖南省铀矿床类型、成矿系列成矿谱系与找矿新进展	刘翔, 陈小东, 邓志强, 黄小强, 包云河, 覃金宁, 肖振华, 汪力群, 应西荣(127)
南岭成矿带铀矿地质特征、成矿规律与全位成矿模式	赵如意, 王登红, 陈毓川, 冷成彪, 秦锦华, 赵晨辉(149)
南岭萤石矿床成矿规律及成因	方贵聪, 王登红, 陈毓川, 黄凡, 王岩, 吴家旭, 胡世辅(161)
云南离子吸附型稀土矿成矿规律	陆蕾, 王登红, 王成辉, 赵芝, 冯文杰, 徐晓春, 陈晨, 钟海仁(179)
中国泥炭矿成矿规律与开发利用	饶娇萍, 贾沁贤, 王登红, 刘丽君, 代鸿章, 郭唯明(192)
广东省大宝山斑岩型铜矿床勘查突破及其区域找矿意义	赵如意, 王登红, 王要武, 陈毓川, 刘武生, 张熊, 蒋金昌, 刘战庆, 李挺杰, 王兰根, 应立娟(204)
中国镍矿成矿规律的量化研究与找矿方向探讨	王岩, 王登红, 孙涛, 黄凡(217)
吉中-延边地区燕山期岩浆作用与矿床成矿系列研究	赵华伟, 李德洪, 臧兴运, 彭玉鲸, 马晶(241)
矿田尺度成矿规律与成矿系列研究——以湖南水口山为例	秦锦华, 王登红, 陈毓川, 赵如意, 刘善宝, 江彪(255)
浙东南离子吸附型稀土矿床成矿规律与找矿方向探讨	陈晨, 王成辉, 赵芝, 杨岳清, 樊锡银, 党晓亮, 张伟(270)
四川甲基卡两类锂辉石矿体共存机制及其找矿意义	杨岳清, 王登红, 刘善宝, 刘丽君, 王成辉, 郭唯明(287)
中国矿产地质志省级“矿产地质图”和“成矿规律图”的编图思路和编图方法	徐志刚, 王岩, 陈郑辉, 黄凡(303)
四川甲基卡锂矿伟晶岩转石分布区“3 定 2 参”大比例尺填图法及其在青藏高原应用的意义	刘善宝, 王成辉, 王登红, 代鸿章, 马圣钊, 于扬, 潘蒙, 郝雪峰, 杨荣(326)

第 2 期

华南前侏罗纪构造	舒良树, 陈祥云, 楼法生(333)
丹霞地貌定义、分类及丹霞作用研究	郭福生, 陈留勤, 严兆彬, 刘富军, 潘志新, 张炜强, 胡海平(361)
大连金州湾寒武系毛庄组微生物碳酸盐岩生物丘复合体	梅冥相, 胡媛, 孟庆芬(375)
甘肃北山南带沙枣园复式岩体年代学、地球化学特征及其构造意义	赵宏刚, 梁积伟, 王驹, 苏锐, 金远新, 田霄, 罗辉(396)
川东与大巴山褶皱冲断带交汇区构造几何学和运动学特征	文凯, 李传新(426)
甘孜-理塘蛇绿混杂岩中段洋岛型岩石组合的发现及其对构造演化的指示意义	严松涛, 谭昌海, 段阳海, 李虎(439)
松嫩-张广才岭地块东缘晚二叠纪构造演化历史: 来自德裕花岗岩地质年代学和地球化学的证据	李韶凯, 刘金龙, 周永恒, 刘二情(450)
郯庐断裂带中南段闭锁特征与地震危险性分析	李腊月, 李玉江, 张风霜, 陈长云, 尹海权, 贾玥(467)
东海晚中生代岩浆弧与陆缘汇聚作用: 碎屑锆石 U-Pb 年代约束	李晓龙, 许长海, 高顺莉, 黄湘通, 赵洪, 张成晨(480)
滇西哀牢山变质杂岩中含石墨岩石的变形-变质温度、构造特征及流变弱化意义	吕美霞, 曹淑云, 李俊瑜, 程雪梅(491)
昌宁-孟连结合带清平地区斜长角闪岩锆石年代学及 Sr-Nd-Hf 同位素研究	彭智敏, 付于真, 王国芝, 关俊雷, 耿全如, 胡金锋, 刘云鹤, 张璋(511)
内蒙古巴根黑格其尔铅锌矿花岗岩斑岩锆石 U-Pb 年代学、地球化学及 Sr-Nd-Pb-Hf 同位素研究	郭向国, 黄蒙辉, 王兆强, 李进文, 张德会, 王帅杰, 王思耀, 焦天龙(527)
上黑龙江盆地虎拉林早白垩世岩体锆石 U-Pb 年代学、Hf 同位素及地球化学特征研究	巩鑫, 赵元艺, 水新芳, 程贤达, 王远超, 刘璇, 谭伟(553)
华北克拉通东南缘中条山陶家窑基性岩墙群 U-Pb 定年、地球化学特征及其构造环境	冯娟萍, 欧阳征健, 马海勇, 范萌萌, 马静(573)

纳米比亚欢乐谷地区白岗岩型铀矿中硫化物特征及 S-Pb 同位素示踪	陈金勇, 范洪海, 王生云, 顾大钊, 张闯, 陈东欢 (587)
浙东南后坑酸性蚀变岩帽地质及矿物学特征	刘秋平, 唐菊兴, 胡古月, 宋扬, 谢富伟, 代晶晶, 孙渺, 余旭辉, 叶泽富, 傅正圆, 郭晓宇 (599)
中亚造山带北山南部下泥盆统火山—沉积地层的岩相、时代及古地理意义	牛亚卓, 宋博, 周俊林, 许伟, 史冀忠, 张宇轩, 卢进才 (615)
急陡沟道泥石流起动特征模型试验研究——以汶川县福堂沟为例	李宁, 唐川, 龚凌枫, 杨成长, 陈明, 甘伟 (634)
Crust1.0 地壳模型及其应用: 以长江中下游成矿带为例	罗凡, 严加永, 付光明, 罗磊, 陶鑫, 王昊 (648)
山东胶东半岛焦家断裂带南缘电性结构研究	胡浩, 张昆, 严加永, 邵陆森, 付光明 (661)

第 3 期

东海盆地中、新生代盆架结构与构造演化	刘金水, 许怀智, 蒋一鸣, 王军, 何新建 (675)
阿尔金断裂东段的构造转换模式	罗浩, 徐锡伟, 刘小利, 白鸾羲, 王启欣, 李梦妮, 刘少卓 (692)
下扬子及其邻区地壳和上地幔结构的接收函数研究及其地质意义	叶卓, 李秋生, 张洪双, 王晓冉, 韩如冰, 吴庆宇 (707)
青藏高原东北缘柴达木盆地红沟剖面物源分析及其构造意义	刘康, 王伟涛, 赵旭东, 庞建章, 俞晶星 (716)
大别造山带新太古代地壳岩石和古元古代混合岩化作用——来自锆石 U-Pb 年代学和 Hf 同位素证据	邱啸飞, 江拓, 吴年文, 赵小明, 徐琼 (729)
华北克拉通中部早白垩世岩石圈地幔性质: 来自孤偃山科头钾质正长岩年代学、同位素的限制	张乔, 周俊林, 李玉宏, 陈高潮, 张慧婷 (739)
额尔古纳地块新元古代花岗岩榴石原位微区 LA-ICP-MS U-Pb 定年及其地质意义	赵硕, 张进, 李锦轶, 许文良, 曲军峰, 刘建峰, 郑荣国, 葛茂卉 (757)
东昆仑东段都兰热水花岗岩锆石 U-Pb 年龄、地球化学及构造意义	韩建军, 李运冬, 宋传中, 何俊, 韩旭, 祁昌炜, 赵明福, 何孝良 (768)
上黑龙江盆地二十一站岩体角闪石和黑云母成分特征及成岩成矿意义	程贤达, 刘春花, 赵元艺, 水新芳, 王远超, 巩鑫, 刘璇, 谭伟, 许安民 (782)
吉黑东部两类侏罗纪长英质岩体的成因及成矿潜力分析: 以东宁和福洞岩体为例	乔石磊, 马星华, 陈忠新, 石威科, 周芳春, 刘翔, 李鹏, 黄志彪, 文春华, 陈阡然, 苏俊男, 黄小强, 张宗栋, 张立平, 陈虎, 刘俊峰, 胡小芳 (817)
湖南仁里矿田锂辉石白云母伟晶岩地质特征及其找矿意义	
四川马尔康党坝花岗伟晶岩型稀有金属矿床成矿时代的限定: 来自 LA-MC-ICP-MS 锡石 U-Pb 定年的证据	费光春, 杨峥, 杨继忆, 罗伟, 邓运, 赖宇涛, 陶鑫鑫, 郑谔, 唐文春, 李剑 (836)
黔西北铅锌多金属矿集区成矿构造体系及其控矿机制	韩润生, 王明志, 金中国, 李波, 王子勇 (850)
漠河盆地二十二站组砂岩年代学、地球化学及其地质意义	王远超, 赵元艺, 刘春花, 水新芳, 程贤达, 巩鑫, 刘璇, 谭伟, 洪骏男 (869)
冀中拗陷东麓凹陷潜山不整合特征与油气运聚模式	蔡川, 邱楠生, 刘念, 李振明, 王元杰, 鱼占文, 焦亚先 (888)
鄂尔多斯盆地东部山西组页岩气成藏特征及勘探对策	刘洪林, 王怀厂, 张辉, 赵伟波, 刘燕, 刘德勋 (905)
川中安岳构造寒武系龙王庙组油气成藏史	林雪梅, 袁海锋, 朱联强, 曾伟, 徐云强 (916)
鄂西宜昌地区五峰组—龙马溪组黑色岩系硅质来源及其油气地质意义	蔡全升, 陈孝红, 张保民, 刘安, 韩京, 张国涛, 李炎桂 (931)
黔北镇远牛蹄塘组黑色页岩沉积环境与有机质富集关系	夏鹏, 付勇, 杨镇, 郭川, 黄金强, 黄明勇 (947)
鄂尔多斯盆地陇东地区延长组长 7 段沉积微相及沉积演化特征	张晓辉, 冯顺彦, 梁晓伟, 冯胜斌, 毛振华, 任继胜, 陈韶华 (957)
岷江上游新磨村湖相沉积物粒度端元反演及其记录的构造和气候事件	钟宁, 蒋汉朝, 李海兵, 徐红艳, 梁莲姬, 时伟 (968)
元素活动态提取条件和分析方法的应用研究	徐进力, 邢夏, 张鹏鹏, 胡梦颖, 白金峰, 张勤, 王学求 (982)
基于激光诱导击穿光谱技术的岩石表面指纹图谱分析及分类方法	张蕊, 孙兰香, 陈彤, 王国栋, 张鹏, 汪为 (991)

第 4 期

鲕粒滩中光合作用生物膜构建的高能核形石: 以辽西葫芦岛三道沟剖面寒武系张夏组为例	梅冥相, Khalid Latif, 孟晓庆, 胡媛 (999)
湖北早三叠世鱼龙前肢化石新材料及对比讨论	邹亚锐, 赵璧, 陈刚, 李姜丽, 程龙, 阎春波, 谭秋明 (1017)
华北南缘中元古代地层归属及大地构造演化: 来自碎屑锆石 U-Pb 年代学和锆石微量元素的证据	王淼, 周洪瑞, 张恒 (1027)

华北克拉通南缘栾川群的形成时代、物源及其对区域构造演化的意义: 锆石 U-Pb 年代学和 Hf 同位素制约	李振生, 贾超, 赵卓娅, 霍金晶, 李全忠, 张交东(1046)
西准噶尔地区最晚期岩浆侵入活动——来自早二叠世—早三叠世接特布调岩体的证据	徐盛林, 陈宣华, 李廷栋, 丁伟翠, 李冰, 张垚垚, 马飞宙(1067)
萨热克盆地库孜贡苏组(J ₃ k)对特提斯洋关闭的沉积响应	胡加昆, 陆俊吉, 杨福全(1091)
重力流主导的深水沉积特征及其模式——以共和盆地下三叠统为例	刘炳强, 邵龙义, 王伟超, 黄献好, 刘文进, 张少林, 张浩, 鲁静(1106)
粤北青嶂山岩体江头矿区铀矿微区矿物学、年代学特征及其成矿动力背景制约	赖静, 祁家明, 陈军军, 李钟枢, 曹豪杰(1128)
粤北茶山岩体岩石成因与铀、钨成矿潜力探讨	兰鸿锋, 王洪作, 凌洪飞, 陈卫锋, 王凯兴, 王丹(1143)
北山南部富锰岩石的发现及成因	赵振明, 计文化, 李文明, 孙吉明, 张明祖(1166)
罗布泊富钾卤水矿床地球化学空间分布特征	王凯, 孙明光, 马黎春, 汤庆峰, 颜辉, 张瑜(1183)
北大巴山地区斑鸠关组砂岩地球化学特征对物源和构造环境的限定	张英利, 王宗起, 王坤明, 王刚, 武昱东(1192)
西藏雅鲁藏布缝合带三叠系朗杰学群沉积岩古生物、地球化学特征及其物源区和构造背景分析	王金贵, 张鑫全, 魏文通, 专少鹏, 陈超, 张振利, 常立海, 申宗义(1208)
赣中地区晚中生代高分异 A 型花岗岩的厘定及其成因研究	冯尚杰, 陈卫锋, 王洪作, 凌洪飞, 赵葵东, 陈培荣(1227)
祁连南缘柴达木山花岗岩的岩石学、地球化学及锆石 U-Pb 年代学研究	贺小元, 杨兴科, 王永, 郭瑞华, 廖友运, 范玉海(1248)
班怒成矿带中段雄梅地区碰撞后含铜岩浆岩类型、时代及成因	黎心远, 曲晓明, 马旭东, 陈伟, 孙渺(1264)
滇西澜沧岩群钠长浅粒岩锆石 U-Pb 测年、Hf 同位素组成及构造意义	韩文文, 彭智敏, 张辑, 关俊雷, 胡金锋, 刘云鹤(1282)
川西理塘断裂带奔戈-村戈段古地震事件及其非均匀性活动特征	张克旗, 吴中海, 周春景, 田婷婷, 李跃华, 李家存(1295)
长江三峡屈原镇土状堆积的成因及地质环境意义	张玉芬, 李长安, 孙习林, 魏传义, 李亚伟(1304)
北京顺义断裂第四纪活动性地球物理及钻孔综合探测证据	戚帮申, 潘智锋, 丰成君, 谭成轩, 张鹏, 孟静, 孙明乾, 杨肖肖, 雷晓东, 石涵静, 易冰(1315)
征稿简则	(1330)

第 5 期

天山及邻区燕山期构造岩浆事件	朱文斌, 王富军, 曹远远, 王胜利(1331)
准噶尔盆地西北缘二叠系-下侏罗统碎屑岩骨架组分及其物源与构造背景演化示踪	蔚远江, 胡素云, 何登发(1347)
满洲里—新巴尔虎右旗地区满克头鄂博组形成的时限与古气候环境	白玉岭, 王涛, 王宗起, 康小龙, 顾新雨, 邱广东, 王东星, 闫洁(1367)
云南保山普里道利统沉积特征及其对冈瓦纳北缘古海洋环境的指示	潘明, 郝彦珍, 孙成杰, 吕勇, 山克强(1382)
辽东黑沟地区辽河群成因及其对辽吉造山带构造演化的制约	杨玉伟, 余超, 苏特, 董洋, 王广伟, 田毅, 鲍东明(1397)
冈底斯岩浆弧东段沉积岩的早新生代变质作用及构造意义	张成圆, 张泽明, 丁慧霞, 陈言飞, 秦圣凯, 江媛媛, 康东艳, 李文坛(1413)
南阿尔金茫崖 A 型花岗岩的成因及构造意义	徐楠, 吴才来, 郑坤, 高栋(1431)
新疆东部卡瓦布拉克地区古生代岩浆活动对中天山地块构造归属的指示意义	木扎帕尔·木合塔尔, 尼加提·阿布都逊, 郭瑞清, 宫相宽, 崔涛, 宋志豪(1450)
西准噶尔红山地区晚古生代赞岐岩锆石 U-Pb 年代学、地球化学特征及其地质意义	马飞宙, 陈宣华, 徐盛林, 马芬, 韩乐乐, 丁伟翠, 王叶(1462)
内蒙古东珉铅锌银矿床成矿机制的热力学相图研究	谢伟, 温守钦, 唐铁乔, 马鹏程(1482)
重庆南川铝土矿物源分析: 碎屑锆石 U-Pb 定年、Hf 同位素和锆石微量元素示踪	钟海仁, 孙艳, 赵芝, 王成辉(1505)
川东北巴中—通南巴地区须家河组致密砂岩储层裂缝发育特征及控制因素	蒋有录, 李明阳, 王良军, 刘景东, 曾韬, 赵承锦(1525)
致密储层岩性精准评价及毫米级样品油源精细对比——以松辽盆地北部 QP1 井为例	张居和, 张博为, 冯子辉, 邵红梅, 霍秋立, 鄢仁勤(1538)
鄂尔多斯盆地靖边气田马家沟组五段白云岩沉积微相测井识别与评价	赖锦, 刘秉昌, 冯庆付, 庞小娇, 赵太平, 王贵文, 王抒忱, 陈晶(1551)
湘鄂西页岩非均质性研究——以 Ld1 井龙马溪组为例	张鹏, 黄宇琪, 张金川, 李博, 刘洪洋, 杨军伟(1568)

准噶尔盆地呼图壁河侏罗系齐古组点坝砂体叠迁样式及演化特征	姚宗全, 德勒恰提·加娜塔依, 张明玉, 孙乐, 王文峰, 潘品百, 黄博超(1578)
青海省贵德县热水泉干热岩体地质—地热地质特征	张森琦, 吴海东, 张杨, 宋健, 张林友, 许伟林, 黎敦朋, 李胜涛, 贾小丰, 付雷, 李旭峰, 冯庆达(1591)
山前岩溶热储聚热与富水机理: 以济南北岩溶热储为例	康凤新, 隋海波, 郑婷婷(1606)
新近纪软岩质水平滑带的结构与内部黏土矿物聚集规律	辛鹏, 石菊松, 胡乐, 王涛, 吴树仁(1625)
华北平原鲁北地区地下水超采导致地面沉降区域特征及演化趋势预测	狄胜同, 贾超, 张少鹏, 丁朋朋, 邵明, 张永伟(1638)
碲同位素研究进展及其地质应用展望	陈加杰, 冷成彪, 许德如, 王大钊, 李凯旋(1655)
基于声波测井的冻土区孔隙型水合物储层水合物饱和度估算方法	肖昆, 邹长春, 卢振权, 李红星, 秦臻, 葛坤朋(1664)

第 6 期

序言	(I)
南西天山晚新生代沉积序列磁组构特征及其构造意义	陈新伟, 陈汉林, 林秀斌, 程晓敢, 聂梅(1675)
南天山褶皱冲断带西段变形空间差异性 & 控制因素	余宏甸, 陈汉林, 程晓敢, 张欲清, 辛文, 林秀斌, 杨少梅(1689)
基于离散元数值模拟的西南天山山前冲断带构造变形控制因素研究	辛文, 陈汉林, 安凯旋, 张欲清, 杨树锋, 程晓敢, 林秀斌(1704)
库车坳陷东部晚白垩世古隆起及构造应力场恢复	王珂, 曹婷, 魏红兴, 肖安成, 周露(1716)
库车坳陷西段盐构造二维平衡恢复与复原构造剖面分析	高麟, 汪新, 饶刚(1727)
库车坳陷东西段盐下构造变形差异演化数值模拟分析	徐雯娇, 汪伟, 尹宏伟, 贾东, 李长圣, 杨庚兄, 李刚(1740)
先存薄弱带对帕米尔弧形构造带形成的影响: 来自构造物理模拟实验的制约	曹玉萍, 陈汉林, 林秀斌, 程晓敢, 杨蓉, 吴磊, 石许华(1752)
浅部滑脱层沿走向的厚度与性质差异对变形影响的物理模拟研究: 对乌什和库车褶皱冲断带的启示	龙毅, 陈汉林, 程晓敢, 林秀斌, 张耀, 成亚(1763)
青藏高原东缘非刚性书斜式断层模型的物理模拟实验研究	刘军, 贾东, 尹宏伟, 沈礼, 范小根, 杨双(1780)
四川盆地加里东古隆起形成演化及动力学成因机理	苏桂萍, 李忠权, 应丹琳, 李根, 应文峰, 杨渊宇, 刘恒麟, 丁啸, 唐华强(1793)
准噶尔盆地南缘二叠—三叠纪原型盆地性质与沉积环境演化	庞志超, 焦悦, 袁波, 王家林, 魏凌云, 唐雪颖, 周彦希, 吴朝东(1813)
准噶尔盆地玛湖凹陷下二叠统古老碱湖成因探究: 来自全球碱湖沉积的启示	李威, 张元元, 倪敏婕, 唐文斌(1839)
准噶尔盆地渐新世安集海河组类胡萝卜素的发现及古环境意义	马健, 吴朝东, 王熠哲, 焦悦, 周家全, 冷佳宣, 崔行骞(1853)
塔里木地块西北缘震旦系发现二叠纪基性岩床侵入事件	吴鸿翔, 黄伟康, 励音骐, 林秀斌, 陈汉林, 程晓敢, 章凤奇(1869)
准噶尔盆地南缘深层侏罗系储层沥青成因及其对油气成藏的启示	胡瀚文, 张元元, 郭召杰, 卓勤功(1883)
华南上扬子区深部温度估算及其油气地质意义	李香兰, 刘绍文, 徐明, 李旭东, 郝春艳(1896)
2019 年 3 月柴达木盆地茫崖 5.0 级地震构造与油田井损关系分析	张长好, 杨屹洲, 郭召杰, 朱立林(1911)

第 7 期

序言	王贵玲(I)
我国主要水热型地热系统形成机制与成因模式	王贵玲, 蔺文静(1923)
渭河盆地地温场分布规律及其控制因素	任战利, 刘润川, 任文波, 祁凯, 杨桂林, 崔军平, 杨鹏, 张园园(1938)
燕山中部大地热流及岩石圈热结构特征——以承德市七家-茅荆坝地热田为例	刘峰, 王贵玲, 张薇, 岳晨, 陆川, 黄起伟, 欧小科(1950)
冀中坳陷中部现今热岩石圈厚度及地热学意义探讨	崔悦, 朱传庆, 邱楠生, 唐博宁, 郭飒飒(1960)
雄安新区高阳低凸起区雾迷山组热储特征与高产能地热井参数研究	王贵玲, 高俊, 张保建, 邢一飞, 张薇, 马峰(1970)
雄安新区容城地热田热储空间结构及资源潜力	马峰, 王贵玲, 张薇, 朱喜, 张汉雄, 岳高凡(1981)
雄安新区容城地热田地热流体化学特征	赵佳怡, 张薇, 马峰, 朱喜, 张汉雄, 王贵玲(1991)
雄安新区雾迷山组岩溶裂隙发育特征	唐博宁, 朱传庆, 邱楠生, 崔悦, 郭飒飒, 陈驰(2002)
雄安新区容城凸起区地热可采资源量动态预测	胡秋韵, 高俊, 马峰, 赵志宏, 刘桂宏, 王贵玲, 张薇, 朱喜, 张保建, 邢一飞(2013)
雄安新区深部地热资源形成条件与有利区预测	郭飒飒, 朱传庆, 邱楠生, 唐博宁, 崔悦(2026)

河北省马头营干热岩的成因机制及其示范意义	张保建, 李燕燕, 高俊, 王贵玲, 李郡, 邢一飞, 赵甜(2036)
青海共和盆地地热资源热源机制与聚热模式	唐显春, 王贵玲, 马岩, 张代磊, 刘忠, 赵旭, 程天君(2052)
东南沿海厦门湾-漳州盆地地热地质特征及干热岩勘查方向	蒯文静, 陈向阳, 甘浩男, 岳高凡(2066)
利用自然伽马测井估算塔里木盆地沉积层生热率	罗昕, 朱传庆, 张宝收, 唐博宁, 陈天戈(2078)
华北平原主要城市浅层岩土综合导热能力研究——基于现场热响应试验分析	王婉丽, 王贵玲, 刘春雷, 李郡(2089)
粤中隐伏岩体区地热赋存特征及热异常成因分析	甘浩男, 蒯文静, 闫晓雪, 岳高凡, 张薇, 王贵玲(2096)
花岗岩酸岩作用反应动力学研究	岳高凡, 李晓媛, 甘浩男, 王贵玲(2107)
花岗岩型干热岩体与不同注入水体相互作用研究	赵宇辉, 冯波, 张国斌, 上官拴通, 齐晓飞, 李翔, 乔永超, 许佳男(2115)
天然裂缝影响下的花岗岩水力裂缝扩展数值模拟	王璜, 王贵玲, 岳高凡, 甘浩男(2124)
基于参数辨识的典型区地热资源量研究——以银川平原西部斜坡区为例	何雨江, 丁祥(2131)
基于高导热材料填充漏失构造的深井换热器性能分析	卜宪标, 蒋坤卿, 李华山, 王令宝(2139)
综合物化探方法在冀中坳陷深部热储探测中的应用	苗青壮, 王贵玲, 邢林啸, 张薇, 周晓妮, 王维强(2147)
华北地区碳酸盐岩热储层酸化压裂模拟方法与应用	徐浩然, 程镜如, 赵志宏(2157)
利津干热岩型地热资源调查评价关键技术研究	谭现锋, 刘肖, 王贵玲, 王浩(2166)

第 8 期

川西花岗-伟晶岩型锂矿科学钻探:科学问题和科学意义	许志琴, 王汝成, 朱文斌, 秦宇龙, 付小芳, 李广伟(2177)
从深部背景看燕山陆内造山作用的主因	邵济安(2190)
大兴安岭北部诺敏河地区早石炭世 A 型花岗岩的年代学、地球化学及 Hf 同位素研究	吴子杰, 汪洋, 崔培龙, 邱隆伟, 王海鹏, 仲米山(2200)
辽东黑沟地区古元古代碱长花岗岩年代学、地球化学、Hf 同位素特征及其对辽吉造山带构造演化的制约	杨玉伟, 余超, 王广伟, 苏特, 杨新宇, 张天元(2212)
内蒙古杜尔基构造混杂岩物质组成及构造属性研究	金松(2227)
甘肃龙首山—合黎山晚志留世一早泥盆世花岗岩类的成因及其对阿拉善地块西南缘早古生代构造演化的约束	王增振, 陈宣华, 邵兆刚, 李冰, 丁伟翠, 张义平, 王永超, 张垚垚, 徐盛林, 秦翔(2243)
南阿尔金木纳布拉克地区石英闪长岩的成因:来自地球化学特征、锆石 U-Pb 定年和 Lu-Hf 同位素组成的制约	高慧, 曹玉亭, 刘良, 王超, 康磊, 杨文强, 陈晓宏(2262)
青海牛苦头矿区锰质黑柱石成因及其地质意义	王新雨, 祝新友, 李加多, 王玉往, 龙灵利, 李顺庭, 吴锦荣, 程细音, 蒋斌斌(2279)
特提斯成矿域中新世斑岩铜矿岩石成因、源区、构造演化及其成矿作用过程	吕鹏瑞, 姚文光, 张辉善, 张海迪, 洪俊, 刘生荣(2291)
湘中龙山 Au-Sb 矿床成矿物质来源——来自 S、Pb 和 Sr 同位素证据	蔡应雄, 杨红梅, 邱啸飞, 梅玉萍, 童喜润, 谭娟娟, 刘重茂(2311)
浙江治岭头铅铅锌金多金属矿床矿质来源的硫、铅同位素示踪及成矿时代	楚克磊, 陈小荣, 齐刚, 高翔, 胡博, 李胜进(2325)
综合勘查方法在硬岩型锂矿找矿中的应用——以马尔康稀有金属矿田加达锂矿为例	马圣钊, 王登红, 刘善宝, 王成辉, 代鸿章, 饶魁元, 丁晓平, 朱海洋, 邓子清, 郭玮鹏(2341)
伦坡拉盆地西部丁青湖组新发现凝灰岩锆石 U-Pb 年龄及其地层学意义	曾胜强, 王剑, 陈文彬, 付修根, 孙伟, 李金锋, 刘君豪(2354)
新疆包古图斑岩铜矿 III-2 岩体氧逸度研究:来自矿物成分的指示	魏少妮, 朱永峰, 安芳(2367)
尼雄地区早白垩世磁铁矿伸展成矿地质背景及成矿模型	刘函, 李俊, 崔浩杰, 苟正彬, 李奋其, 张士贞, 段瑶瑶(2383)
川西甲基卡地区侏倭组沉积物源分析——来自碎屑锆石 U-Pb 年龄证据	秦宇龙, 李名则, 熊昌利, 詹涵钰, 徐云峰, 武文辉, 李峥(2400)
淮北凹陷走滑断裂体系特征及其控藏作用	陈登超, 杨贵丽, 马立驰, 刘晓林, 辛也, 田雯, 王园园, 王志英, 郝冉冉(2410)
文昌 B 凹陷差异伸展-走滑机制及控藏作用研究	江汝锋, 周家雄, 杨希冰, 游君君, 李珊珊, 陈林, 张霞(2422)
大凌河河口地区中更新世晚期以来沉积环境演化	商志文, 李建芬, 姜兴钰, 李琰, 王宏(2433)
近岸水下扇微相划分研究及意义初探——以滦平盆地地下白垩统西瓜园组为例	白立科, 邱隆伟, 杨勇强, 杜玉山, 王军, 韩晓彤, 董道涛, 杨保良, 汪丽芳(2446)
新疆西准噶尔洪古勒楞组与泥盆系-石炭系界线新知	纵瑞文, 王志宏, 范若颖, 宋俊俊, 张欣松, 申震, 龚一鸣(2460)
植物化石角质层分析实验技术总结及探索	王雪莲, 熊聪慧, 孙柏年, 吴靖宇, 杜宝霞(2476)

跨断层与 GPS 地壳形变数据联合反演鲜水河断裂地震危险性	尹海权, 郭祥云, 常明, 占伟, 李腊月, 徐东卓 (2487)
2015 年金口河 M _s 5.0 级地震前地应力状态及动力学背景分析	李兵, 丁立丰, 郭启良, 姜大伟, 谢富仁 (2500)
基于时间序列分形的济南岩溶大泉动态研究	于苗, 邢立亭, 吴吉春, 侯玉松, 朱恒华, 彭玉明, 李罡 (2509)
热红外高光谱技术在地质找矿中的应用综述	代晶晶, 赵龙贤, 姜琪, 王海宇, 刘婷玥 (2520)
碳酸盐岩油气储层高精度成像方法研究	谷丙洛, 韩建光, 陈军, 黄建平, 李振春 (2534)
海陆过渡区空地重力数据融合及评价	张婉, 张玄杰, 李筱, 佟晶, 范子梁 (2545)

第 9 期

序言	宋明春 (I)
华北克拉通金伯利岩型金刚石矿床含矿性判别	倪培, 朱仁智 (2557)
中国原生金刚石形成条件及找矿思考	向璐, 郑建平 (2574)
蛇绿岩中金刚石和异常矿物的全球记录	刘飞, 杨经绥, 连东洋, 熊发挥, 吴魏伟 (2588)
山东省鲁西金刚石的类型、源区及区域壳幔演化背景	宋明春, 余西顺, 宋英昕, 肖丙建, 周登诗, 高存山, 冯爱平 (2606)
郯庐断裂带山东段金伯利岩和碱性岩浆岩的深源特征矿物信息及其资源能源意义	曾普胜, 赵九江, 温利刚, 汪双清, 张小涛, 王十安 (2626)
辽宁瓦房店金刚石矿田金伯利岩侵位机制分析	付海涛 (2640)
金伯利岩型金刚石矿床研究及其成矿模式探讨——以辽宁瓦房店地区金刚石原生矿矿床为例	刘礼广, 吴大天, 韩双, 万方来, 林少全, 杨献忠 (2650)
鲁西蒙阴地区含金刚石金伯利岩的岩浆侵入序列及成矿模式	张成基, 田京祥, 陈文韬, 张增奇, 杜圣贤 (2666)
辽南斑状金伯利岩岩相学特征及其成因研究	王思琪, 郑建平, 韩双, 王俊烈 (2676)
山东郯城砂矿金刚石特征及包裹体研究	吕青, 葛跃进, 肖丙建, 焦永鑫, 冯爱平, 李新风 (2687)
南阿尔金巴什瓦克基性麻粒岩的变质演化 $P-T-t$ 轨迹	郭晶, 李云帅, 张建新 (2698)
鲁西大井头地区金刚石找矿指示矿物特征及其研究意义	王玉峰, 肖丙建, 宋明春, 傅朋远, 朱成河, 赵军, 高存山, 徐衍明 (2712)
基于三维模型的西峪金伯利岩管与断裂构造关系探讨	李伟, 陈建平, 褚志远, 徐磊 (2728)
华北克拉通南缘碱性基性岩金刚石成因探讨——来自红外光谱的证据	蔡逸涛, 张洁, 施建斌, 周琦忠, 马玉广, 刘吉强, 徐敏成, 万方来, 徐华, 肖丙建, 吴祥珂, 袁秋云 (2736)
江苏徐州白露山岩管地质特征及与金刚石成因关系探讨	周琦忠, 张琪, 冯学知, 王博, 邱磊, 王国强, 黄友波 (2748)
加拿大案例探讨寻找金刚石矿的三个关键点	丁毅 (2763)
山东蒙阴县西峪金伯利岩带深部综合地球物理特征及其意义	程光锁, 刘卫东, 褚志远, 周军, 赵德庆, 胡戈, 梁太涛 (2772)
鲁西金刚石原生矿床区域重磁异常特征及深部地质构造背景	张建太, 于磊, 刘传朋, 李兆营, 王伟德, 高玲举 (2783)
征稿简则	(2796)

第 10 期

青藏高原巨厚地壳: 生长、加厚与演化	侯增谦, 郑远川, 卢占武, 许博, 王长明, 张洪瑞 (2797)
河南淅川盆地上白垩统恐龙蛋一新蛋种	贾松海, 方开永, 高殿松, 高永利, 常华丽, 常飞, 肖乐, 杨丽丽, 郑亚琳, 朱旭峰, 王强, 汪筱林 (2816)
羌塘盆地中部侏罗系埋藏史和生烃史	吴珍汉, 季长军, 赵珍, 陈程 (2823)
鄂尔多斯盆地东南南召地区中生代以来的构造演化研究——来自低温热年代学的证据	韩伟, 李玉宏, 刘溪, 陈高潮, 张云鹏 (2834)
大兴安岭南段白音诺尔铅锌矿床成矿时代确定及其找矿意义	蒋斌斌, 祝新友, 黄行凯, 邹滔, 徐巧, 刘孜 (2844)
松辽盆地新生代构造演化对砂岩型铀矿成矿的控制作用——来自磷灰石裂变径迹的证据	吏成辉, 程银行, 王铁军, 王少轶, 张天福, 程先钰, 张夏炜, 李艳锋 (2856)
鄂尔多斯盆地北缘砂岩型铀矿板状矿体形成机制: 来自含矿层不同分带砂岩中高岭石含量研究的约束	丁波, 刘红旭, 张宾, 易超, 刘洪军, 王贵, 任志勇 (2874)
石榴子石 U-Pb 精确测年对斑岩-矽卡岩型铜矿床成矿时限的制约——以西藏桑日铜矿为例	林彬, 陈蕾, 刘振宇, 唐菊兴, 邹兵, 贺文 (2883)
南天山盲起苏花岗岩体的成因及构造意义: 来自年代学、地球化学及 Nd-Hf 同位素证据	于新慧, 秦切, 黄河, 王涛, 张招崇, 童英, 郭磊, 宋鹏 (2893)
新疆阿希与塔吾尔别克金矿床的成因联系: 来自流体包裹体、S-Pb 同位素和黄铁矿热电性的证据	彭义伟, 顾雪祥, 章永梅, 王新利, 郑少华, 王冠南 (2919)

东秦岭地区碳酸岩型钼-铀多金属矿床成矿时代: 来自 LA-ICP-MS 独居石 U-Pb 和辉钼矿 Re-Os 年龄的证据	王佳营, 李志丹, 张祺, 李超, 谢瑜, 李光耀, 曾威, 丁宁 (2946)
郯庐断裂带南段继承性断裂构造控矿模式研究及其应用效果——以皖东北五河金矿整装勘查为例	汪青松, 张顺林, 张金会, 张家嘉, 尤森 (2965)
西昆仑苦子干新生代透辉石正长岩和透辉石花岗岩地球化学特征及年代学研究	袁亚娟, 陈玮岩, 夏斌, 张玉泉, 肖敬国, 周厚云 (2978)
纳米比亚罗什皮纳地区古元古代花岗闪长岩时代、成因及地质意义	黄映聪, 陈敦理, 王文军, 万江, 孟高原, 肖娥, 王艳芬, 刘静 (2994)
成矿构造体系对铅锌成矿系统的控制作用——以会泽富锗铅锌矿床为例	王明志, 韩润生, 张艳 (3008)
中国北部陆架海碎屑锆石 U-Pb 年龄和钾长石主微量元素物源示踪研究	林旭, 刘静, 吴中海, 王世梅, 赵希涛, 陈勇, 李兆宁, 刘海金 (3024)
青岛灵山岛下白垩统湖泊风暴沉积与风暴作用	钟建华, 倪良田, 孙宁亮, 郝兵, 薛纯琦, 邵珠福, 毛鑫, 宋冠先, 葛毓柱, 陈彬, 刘圣鑫, 曹梦春, 刘创, 彭超峰, 谷东辉, 王超宁, 王永强, 李聪 (3036)
渤海湾盆地歧口凹陷断裂活动定量分析和评价对油气成藏的控制作用研究	王洪宇, 付晓飞, 王海学, 陈沫, 孟令东, 平贵东 (3062)
准噶尔盆地中拐凸起 JL30 井区上乌尔禾组元素地球化学特征及其石油地质意义	李佳思, 余兴, 朱涛, 严红, 张顺存, 杨永恒, 邹姐姐 (3074)
云南 1588 年通海-曲江 7.0 级地震的发震断层厘定及小江断裂带南端的未来强震危险性问题	胡萌萌, 吴中海, 黄小龙, 李浩民 (3090)
辽东半岛五龙金矿床航空电磁场特征及找矿意义	石连成, 骆燕, 江民忠, 王志宏, 朱琳, 陈伟, 韩鹏辉, 陈志鹏 (3106)
3Ma 以来华北地区植被演化特征及其驱动因素	胡云壮, 杨吉龙, 李影, 周新郢, 刘宏伟, 商志文 (3120)
西藏羌北高原多格错仁盐湖中更新世晚期以来的环境演化记录	李金锁, 刘喜方, 牛新生, 商斌, 李国臣 (3130)
早更新世晚期松花江水系袭夺: 地球化学和沉积学记录	吴鹏, 谢远云, 康春国, 迟云平, 魏振宇, 王嘉新, 张曼, 张月馨, 刘璐 (3144)

第 11 期

四川盆地南部地震区发震构造及其新构造背景	张岳桥 (3161)
鲜水河断裂带色拉哈—康定段新发现的活动断层: 木格措南断裂	潘家伟, 李海兵, Marie-Luce CHEVALIER, 白明坤, 刘富财, 刘栋梁, 郑勇, 卢海建, 赵中宝 (3178)
斑岩型 Cu±Mo±Au 矿床的勘查标志: 岩石化学和矿物化学指标	冷成彪, 陈喜连, 张静静, 马晓花, 田丰, 郭剑衡, 张乐骏 (3189)
甘肃平凉上奥陶统牙形石和笔石生物地层	樊茹, 马雪莹, 吕丹, 卢远征, 张学磊, 张元动, 邓胜徽, 谭聪, 宋吴南, 张凤廉, 李鑫, 张师本, 段文哲 (3213)
柴西地区上油砂山组咸化湖沼沉积与微生物岩	王建功, 张道伟, 白亚东, 孙秀建, 李翔, 王爱萍, 张世铭, 易定红, 杨巍 (3228)
海南岛高精度航磁特征与居里等温面深度分析	高维, 郭志宏, 周坚鑫, 孟庆奎, 舒晴, 王纯 (3249)
邯郸永年县洪山碱性岩体剥蚀程度分析	李随民, 周正柱, 李槿, 李玉成, 赵书梅, 韩腾飞, 孙志伟, 方勇勇 (3263)
西藏琼结地区钾长花岗岩年代学、地球化学及地质意义	高强, 闫茂强, 魏俊浩, 曾成, 刘颜, 秦波, 姜维 (3272)
新疆卡鲁安硬岩型锂矿床花岗岩与伟晶岩成因关系: 锆石 U-Pb 定年、Hf-O 同位素和全岩地球化学证据	刘涛, 田世洪, 王登红, 张玉洁, 李贤芳, 侯可军, 杰肯·卡里木汗, 张忠利, 王永强, 赵悦, 秦燕 (3293)
赣西北大湖塘钨矿富锂-云母化岩锂元素富集机制及其对锂等稀有金属找矿的启示	张勇, 潘家永, 马东升 (3321)
冀东地区太阳沟钼矿床成因探讨: 来自年代学、地球化学及 S、Pb 同位素的证据	徐国新, 李玉静, 孙金龙, 和越, 赵迪, 刘晓波, 王丹 (3343)
柴北缘双口山金-银-铅矿床赋矿围岩及含金石英脉热液锆石 U-Pb 定年对成矿时代的限定及其成因启示	俞军真, 郑有业, 许荣科 (3361)
西藏班公湖-怒江成矿带商旭金矿成矿时代探讨及其地质意义	方向, 宋扬, 唐菊兴, 王嘉星, 李海峰 (3376)
胶东蓬莱大柳行金矿田燕山金矿床流体包裹体特征和氢-氧同位素研究	马顺溪, 白宜娜, 孙永联, 舒记德 (3391)
雪米斯坦成矿带杨庄岩体中含钼矿物特征及其对钼成矿的指示	李光来, 陈光旭, 刘晓东, 李成祥, 王果, 刘小波, 刘朕语, 龙伟康 (3404)
山东省主要页岩气储层特征与资源潜力	张春池, 彭文泉, 胡彩萍, 李政, 高兵艳, 李志民, 张文, 王英鹏, 高华丽, 张贵丽, 宋亮 (3421)

沥青成因及反映的油气成藏过程	王兆云, 马超, 龚德瑜, 姜华(3436)
中西非裂谷盆地白垩系两类优质烃源岩发育模式	程顶胜, 窦立荣, 张光亚, 刘邦, 宋换新, 刘计国, 毛凤军, 袁圣强, 胡瑛(3449)
大巴山北缘鲁家坪组变质作用及其对页岩气储层的影响	余川, 汪生秀, 汪威, 曾春林, 王巧丽, 张华莲(3461)
中、上扬子龙马溪组层序划分及对页岩储层发育的控制	熊绍云, 王鹏万, 黄羚, 邹辰, 贺训云, 李昌, 徐政语(3471)
库车南斜坡中—新生界油气运移地球化学示踪	刘春, 陈世加, 赵继龙, 苏洲, 陈戈, 刘学彦, 高乔(3488)
湖南寒婆坳矿区热变质煤结构演化及其矿物学特征响应	李焕同, 王楠, 朱志蓉, 石媛, 莫佳峰, 张卫国, 方世跃(3503)
高演化烃源岩岩石热解和总有机碳标准物质研制	杨佳佳, 孙玮琳, 徐学敏, 秦婧, 沈斌, 张小涛, 栗敏, 汪双清(3515)

第 12 期

砂岩型铀矿的微生物成矿作用研究述评	赵龙, 董廷旭, 蔡春芳, 金若时, 蒋婷婷, 魏佳林, 杜华明, 李建国(3523)
岩架热源型地热系统及其水文地球化学判据	郭清海(3544)
中国中侏罗世始水虻科沙水虻属二新种记述	王军有, 冯翠平, 张浩强, 任东, 王永杰(3555)
古亚洲洋俯冲板片断离与后造山伸展: 贺根山缝合带火山岩年代学和地球化学证据	王金芳, 李英杰, 李红阳, 董培培(3561)
基于岩体塑性位错理论的龙门山区域构造系统演化过程	师皓宇, 黄辅琼, 马念杰, 王永建, 马骥, 邹光华, 彭瑞(3581)
大兴安岭西缘罕布庙地区玛尼吐组火山岩锆石 U-Pb 年龄、地球化学特征及构造意义	邵永旭, 李钢柱, 姜海蛟, 许展, 寇帅, 连琛芹, 黄磊(3590)
勉略构造带新元古代洋盆俯冲作用: 来自略阳地区纸房沟岩片火山岩锆石 U-Pb 年龄和 Lu-Hf 同位素的证据	徐通, 张晓团, 焦建刚, 张红强, 贾力(3607)
柴北缘滩间山地区独树沟金矿花岗岩斑岩锆石 U-Pb 年代学、地球化学和 Hf 同位素	李治华, 李碧乐, 李鹏(3625)
东昆仑河尔格头地区晚三叠世花岗岩成因: 年代学、地球化学及 Sr-Nd-Pb 同位素约束	徐博, 王成勇, 刘建栋, 魏丽琼, 吉明甲, 刘博, 白洪溪, 陈晓琳, 李兄(3643)
藏北革吉北部竟柱山组地球化学与碎屑锆石 U-Pb 年代学特征及构造意义	李宝龙, 范海滨, 朱德全, 彭勃, 郭平, 周磊, 李宇飞(3657)
扎格罗斯前陆盆地晚中新世快速剥露证据——来自磷灰石(U-Th)/He 的约束	李佳伟, 孙继敏, 吕丽星, 张志亮, 田晟辰, 曹萌萌, 李有生, 苏柏(3674)
兴蒙地区中-新生代盆地铀成矿特征、机理及其动力学背景研究进展	刘波, 苗爱生, 彭云彪, 张鹏飞, 李鹏, 申科峰, 时志强(3689)
砂岩型铀矿床成矿年代学研究	林效宾, 刘红旭, 李西得, 郝伟林, 王志明(3712)
滇中楚雄盆地老街子 Pb-Ag 矿床和白马苴 Au(Cu)矿床赋矿岩体对比及成矿模式	杨航, 吴鹏, 韩润生, 姜龙燕, 陶琴, 江小均, 管申进(3726)
滇东南建水普雄铈稀土矿床矿物学和元素地球化学特征	王敏, 周家喜, 刘凤祥, 李余华, 李音, 李明晓, 张子军, 王长兵(3746)
广东京村金矿床原生晕分带特征对深部找矿预测的启示	贺昌坤, 陈诚, 许德如, 焦骞骞, 黄小荣, 陈根文, 刘文连, 师爽(3761)
青海卡而却卡铜多金属矿床矿石矿物化学成分特征研究	于娟, 易立文, 谢炳庚, 李晓青, 鲁安怀, 谷湘平, 曹丽, 刘程爱, 张森(3776)
豫西禹州地区太原组旋回沉积与海平面变化特征	宋慧波, 黄志伟, 胡斌, 李娟, 郑锋利, 安红亮(3790)
豫西宜阳地区上二叠统孙家沟组古气候特征分析	祁帅师, 王艳鹏, 彭冰柔, 张碧云, 宁淑媛, 刘晓玲, 郑德顺(3803)
延安地区奥陶系马家沟组上组合膏盐岩成盐沉积演化模式研究	吴海燕, 梁婷, 曹红霞, 乔向阳, 王凯, 李克永, 于珺, 郭艳琴(3819)
基于微量元素分析的古沉积背景重建——以准噶尔盆地西北缘古近系安集海组为例	王彤, 朱筱敏, 董艳蕾, 陈贺贺, 苏彬, 刘宇, 伍炜(3830)
热带西太平洋碳酸盐溶跃深度及其变化规律	齐泽坤, 徐继尚, 李广雪, 赵蒙维, 翟科, 龙海燕, 熊梦君(3852)
加拿大阿萨巴斯卡地区泥炭脂类分子记录的古气候信息	何大双, 黄海平, 侯读杰, 张鹏辉(3864)
《地质学报》(中文版)“地学新知”、“地学科普”公开征集稿件简则	(3879)
2020 总目录	(3880)

ACTA GEOLOGICA SINICA, 2020, Vol. 94, CONTENTS

No. 1

An overview of over 100 years of research achievements and compilation of the first “Annals of Geology of Mineral Resources of China”	HUANG Fan, WANG Denghong, CHEN Yuchuan, WANG Yan, XU Zhigang, ZHU Mingyu, CHEN Zhenghui	(17)
Minerogenetic series group: discussion on minerogenetic series (Ⅴ)	WANG Denghong, CHEN Yuchuan, XU Zhigang, HUANG Fan, WANG Yan, PEI Rongfu	(35)
A summary of regional metallogenic regularity in Beijing	FANG Tongming, GAO Xuequan, LIU Linsheng, LIU Xudong, LI Li, CHENG Xinbin, HE Fubing, ZHANG Xiaoliang, DONG Jing, LIN Tianyi, GUO Gaoxuan	(49)
Characteristics and metallogenic regularity of mineral resources in Tianjin	WANG Liying, HUANG Fan, DUO Xingfang, TU Lipeng	(64)
A discussion on the relationship between regional metallogenic regularity and metallogenic geological events in Shaanxi Province	LI Weicheng, DONG Chen, DONG Wangcang, ZHOU Xiaokang, CHEN Yawei, ZHU Xueli	(83)
A discussion on tectonic evolution and metallogenic regularity in the Hubei Province	LI Hongmei, QIN Zhijun, JIAN Yubin, ZHOU Shaodong, LI Shutao, HU Zhonggui, ZHANG Quanxu, YU Zhenqing, HUANG Guizhen, XIE Mingying	(101)
An overview of the spatiotemporal distribution regularity of minerals in Zhejiang Province	HUANG Guocheng, CHENG Haiyan, LI Xiang, CHEN Xiaoyou	(112)
Factors controlling ore formation, regularity and some prospecting strategies for silver deposits in China	JIANG Biao, ZHANG Tong, WANG Denghong, CHEN Yuchuan, ZHANG Daquan, HUANG Chongke, BAI Ge, WANG Chenghui, HUANG Fan	(126)
A study of different types of uranium deposits, metallogenic series, metallogenic pedigree and a new prospecting outlook in Hunan Province	LIU Xiang, CHEN Xiaodong, DENG Zhiqiang, HUANG Xiaoqiang, BAO Yunhe, QIN Jinning, XIAO Zhenhua, WANG Liquan, YING Xirong	(148)
Geological characteristics, metallogeny and geospatial mineralization model of uranium in the Nanling metallogenic belt	ZHAO Ruyi, WANG Denghong, CHEN Yuchuan, LENG Chengbiao, QIN Jinhua, ZHAO Chenhui	(160)
Metallogenic regularities and genesis of the fluorite deposits in Nanling region	FANG Guicong, WANG Denghong, CHEN Yuchuan, HUANG Fan, WANG Yan, WU Jiaxu, HU Shifu	(178)
The metallogenic regularity of ion-adsorption type REE deposit in Yunnan Province	LU Lei, WANG Denghong, WANG Chenghui, ZHAO Zhi, FENG Wenjie, XU Xiaochun, CHEN Chen, ZHONG Hairan	(191)
The metallogenic regularity, development and utilization of peat deposits in China	RAO Jiaoping, JIA Qinxian, WANG Denghong, LIU Lijun, DAI Hongzhang, GUO Weiming	(203)
A prospecting breakthrough and progress in the Dabaoshan porphyry copper deposit in Guangdong Province	ZHAO Ruyi, WANG Denghong, WANG Yaowu, CHEN Yuchuan, LIU Wusheng, ZHANG Xiong, JIANG Jinchang, LIU Zhanqing, LI Tingjie, WANG Langen, YING Lijuan	(216)
A quantitative study of metallogenic regularity of nickel deposits in China and their prospecting outlook	WANG Yan, WANG Denghong, SUN Tao, HUANG Fan	(240)
A study of magmatism and ore deposit series of Yanshanian magmatism in the central Jilin-Yanbian area	ZHAO Huawei, LI Dehong, ZANG Xingyun, PENG Yujing, MA Jing	(254)
Research on metallogenetic regularity and metallogenic series in ore fields—a case study from the Shuikoushan ore field, Hunan Province	QIN Jinhua, WANG Denghong, CHEN Yuchuan, ZHAO Ruyi, LIU Shanbao, JIANG biao	(269)
A discussion on the metallogenic regularity and prospecting direction of ion-absorption type rare earth deposits in southeastern Zhejiang Province	CHEN Chen, WANG Chenghui, ZHAO Zhi, YANG Yueqing, FAN Xiyin, DANG Xiaoliang, ZHANG Wei	(286)
The co-occurrence mechanism of two types of spodumene ore bodies and their prospecting significance in Jiajikan,		

Sichuan Province	YANG Yueqing, WANG Denghong, LIU Shanbao, LIU Lijun, WANG Chenghui, GUO Weiming	(302)
Mapping ideas and methods for the provincial “Mineral Geological Map” and “Minerogenic Map” in the “Geology of Mineral Resources of China”	XU Zhigang, WANG Yan, CHEN Zhenghui, HUANG Fan	(325)
The “3D2R-BP” large scale mapping method for blocks of pegmatite in the Jajika deposit, western Sichuan, and significance of its application in the Qinghai-Tibet Plateau	LIU Shanbao, WANG Chenghui, WANG Denghong, DAI Hongzhang, MA Shengchao, YU Yang, PAN Meng, HAO Xuefeng, YANG Rong	(332)

No. 2

Pre-Jurassic tectonics of the South China	SHU Liangshu, CHEN Xiangyun, LOU Fasheng	(360)
Definition, classification, and danxianization of Danxia landscapes	GUO Fusheng, CHEN Liuqin, YAN Zhaobin, LIU Fujun, PAN Zhixin, ZHANG Weiqiang, HU Haiping	(374)
Bioherm complex madding up of microbial carbonates in the Cambrian Maozhuang Formation, Jinzhouwan Section in the Dalian City of Liaoning Province in northeastern China	MEI Mingxiang, HU Yuan, MENG Qingfen	(395)
Geochronology, geochemical characteristics and tectonic significance of the Shazaoyuan Composite Pluton in the southern Beishan Mountains, Gansu Province, China	ZHAO Honggang, LIANG Jiwei, WANG Ju, SU Rui, JIN Yuanxin, TIAN Xiao, LUO Hui	(425)
The geometry and kinematics of the intersection area of eastern Sichuan and the Dabashan fold-thrust belt	WEN Kai, LI Chuanxin	(438)
The discovery of the ocean island rock association in the middle part of the Ganzi-Litang Ophiolite Mélange Belt and its implication for tectonic evolution	YAN Songtao, TAN Changhai, DUAN Yanghai, LI Hu	(449)
Late Permian tectonic evolution at the eastern margin of the Songnen-Zhangguangcai Range Massif, NE China: Evidence from geochronology and geochemistry of the Deyu granitoids	LI Shaokai, LIU Jinlong, ZHOU Yongheng, LIU Erqing	(466)
Fault blocking characteristics and seismic hazard analysis in the middle and southern segments of the Tanlu Fault Zone	LI Layue, LI Yujiang, ZHANG Fengshuang, CHEN Changyun, YIN Haiquan, JIA Yue	(479)
Late Mesozoic magmatic arc of continental margin: constraints from detrital zircon U-Pb data, East China Sea	LI Xiaolong, XU Changhai, GAO Shunli, HUANG Xiangtong, ZHAO Hong, ZHANG Chengchen	(490)
The deformation-metamorphic temperature, structural characteristics and rheological weakening significance of the graphite-bearing rocks in the Ailaoshan metamorphic complex, western Yunnan	LÜ Meixia, CAO Shuyun, LI Junyu, CHENG Xuemei	(510)
The results of geochronological, geochemical and Sr-Nd-Hf isotopic investigations on amphibolites in the Qingping Region, Changning-Menglian Suture Zone	PENG Zhimin, FU Yuzhen, WANG Guozhi, GUAN Junlei, GENG Quanru, HU Jinfeng, LIU Yunhe, ZHANG Zhang	(526)
Zircon U-Pb geochronology, geochemical characteristics, and Sr-Nd-Pb-Hf isotopic composition of granite porphyry in the Bagenhegeqier ore district, Inner Mongolia	GUO Xiangguo, HUANG Menghui, WANG Zhaoqiang, LI Jinwen, ZHANG Dehui, WANG Shuaijie, WANG Siyao, JIAO Tianlong	(552)
Zircon U-Pb chronology, Hf isotope and geochemistry studies of the Early Cretaceous rock mass in the Hulalin of Upper Heilongjiang basin	GONG Xin, ZHAO Yuanyi, SHUI Xinfang, CHENG Xianda, WANG Yuanchao, LIU Xuan, TAN Wei	(572)
U-Pb chronology, geochemical characteristics and significance of the Taojiayao basic dike swarms in the Zhongtiao Mountain, southeastern margin of North China Craton	FENG Juanping, OUYANG Zhengjian, MA Haiyong, FAN Mengmeng, MA Jing	(586)
The sulfide characteristics and S-Pb isotopic composition of leucogranite-type uranium deposit in the Gaudeamus area, central Damarabelt, Namibia	CHEN Jinyong, FAN Honghai, WANG Shengyun, GU Dazhao, ZHANG Chuang, CHEN Donghuan	(598)
Geological and mineral characteristics of the Houkeng lithocap in the southeastern Zhejiang	LIU Qiuping, TANG Juxing, HU Guyue, SONG Yang, XIE Fuwei, DAI Jingjing, SUN Miao, YU Xuhui, YE Fuze, FU Zhengyuan, GUO Xiaoyu	(614)
Lithofacies and chronology of volcano-sedimentary sequence in the southern Beishan Region, Central Asian Orogenic		

Belt and its paleogeographical implication	NIU Yazhuo, SONG Bo, ZHOU Junlin, XU Wei, SHI Jizhong, ZHANG Yuxuan, LU Jincai (633)
An experimental study of starting characteristics of steep-channel debris flow: a case study of the Futang gully in the Wenchuan County	LI Ning, TANG Chuan, GONG Lingfeng, YANG Chengzhang, CHEN Ming, GAN Wei(647)
Crust 1.0 crustal model and its application: an example from Middle-Lower Yangtze Metallogenic Belt	LUO Fan, YAN Jiayong, FU Guangming, LUO Lei, TAO Xin, WANG hao(660)
Electrical structures in the southern reach of the Jiaojia fault belt inferred from audio-frequency magnetotelluric sounding in the Jiaodong Peninsula, Shandong Province	HU Hao, ZHANG Kun, YAN Jiayong, SHAO Lusen, FU Guangming (674)

No. 3

Mesozoic and Cenozoic basin structure and tectonic evolution in the East China Sea basin	LIU Jinshui, XU Huaizhi, JIANG Yiming, WANG Jun, HE Xinjian(691)
The structural deformation pattern in the eastern segment of the Altyn Tagh fault	LUO Hao, XU Xiwei, LIU Xiaoli, BAI Luanxi, WANG Qixin, LI Mengni, LIU Shaozhuo(706)
A seismic receiver function study for the crustal and upper mantle structures of the Lower Yangtze and adjacent areas and its geological implications	YE Zhuo, LI Qiusheng, ZHANG Hongshuang, WANG Xiaoran, HAN Rubing, WU Qingyu (715)
Provenance identification for the Honggou section of the Qaidam basin in the northeastern margin of the Tibetan Plateau and its tectonic significance	LIU Kang, WANG Weitao, ZHAO Xudong, PANG Jianzhang, YU Jingxing(728)
Neoproterozoic crustal rocks and Paleoproterozoic migmatization in the Dabie orogen: evidence from zircon U-Pb age and Hf isotopes	QIU Xiaofei, JIANG Tuo, WU Nianwen, ZHAO Xiaoming, XU Qiong(738)
The nature of Early-Cretaceous lithosphere mantle in the central North China craton: constraints from chronological and isotopic data of Ketou potassic syenite in Huyanshan	ZHANG Qiao, ZHOU Junlin, LI Yuhong, CHEN Gaochao, ZHANG Huiting (756)
Titanite LA-ICP-MS U-Pb dating of the Neoproterozoic granites in the Erguna massif and their geological significance	ZHAO Shuo, ZHANG Jin, LI Jinyi, XU Wenliang, QU Junfeng, LIU Jianfeng, ZHENG Rongguo, GE Maohui (767)
Zircon U-Pb dating and geochemistry of granite in the Reshui area of Dulan County, eastern section of east Kunlun orogen and its tectonic implications	HAN Jianjun, LI Yundong, SONG Chuansong, HE Jun, HAN Xu, QI Changwei, ZHAO Mingfu, HE Xiaoliang (781)
Compositional charactersistics, petrogenesis and metallogenic significance of amphibole and biotite from Ershiyizhan intrusion in Upper Heilongjiang basin	CHENG Xianda, LIU Chunhua, ZHAO Yuanyi, SHUI Xinfang, WANG Yuanchao, GONG Xin, LIU Xuan, TAN Wei, XU Anmin (798)
Petrogenesis and metallogenetic potential of two Jurassic felsic rocks in the eastern Jihei belt: a case study from the Dongning and the Fudong intrusions	QIAO Shilei, MA Xinghua, CHEN Zhongxin(816)
Geological characteristics and the prospecting significance of the spodumene-muscovite pegmatite in the Renli ore-field, Hunan Province	SHI Weike, ZHOU Fangchun, LIU Xiang, LI Peng, HUANG Zhibiao, WEN Chunhua, CHEN Qianran, SU Junnan, HUANG Xiaoqiang, ZHANG Zongdong, ZHANG Liping, CHEN Hu, LIU Junfeng, HU Xiaofang (835)
New precise timing constraint for the Dangba granitic pegmatite type rare-metal deposit, Markam, Sichuan Province, evidence from cassiterite LA-MC-ICP-MS U-Pb dating	FEI Guangchun, YANG Zheng, YANG Jiyi, LUO Wei, DENG Yun, LAI Yutao, TAO Xinxin, ZHENG Luo, TANG Wenchun, LI Jian (849)
Ore-controlling mechanism of NE-trending ore-forming structural system at Zn-Pb polymetallic ore concentration area in northwestern Guizhou	HAN Runsheng, WANG Mingzhi, JIN Zhongguo, LI Bo, WANG Ziyong(868)
Detrital zircon geochronology, geochemistry and geological significance of sandstone in the Ershierzhan Formation of the Mohe basin	WANG Yuanchao, ZHAO Yuanyi, LIU Chunhua, SHUI Xinfang, CHENG Xianda, GONG Xin, LIU Xuan, TAN Wei, HONG Junnan (887)
Unconformity characteristics, hydrocarbon migration, and the accumulation model of the buried hill in the Shulu sag, Jizhong depression	CAI Chuan, QIU Nansheng, LIU Nian, LI Zhenming, WANG Yuanjie, YU Zhanwen, JIAO Yaxian (904)

Geological characteristics and exploration countermeasures of shale gas in the Shanxi Formation of the Ordos basin	LIU Honglin, WANG Huaichang, ZHANG Hui, ZHAO Weibo, LIU Yan, LIU Dexun(915)
Hydrocarbon accumulation history of the Cambrian Longwangmiao Formation in the Anyue structure of the central Sichuan basin	LIN Xuemei, YUAN Haifeng, ZHU Lianqiang, ZENG Wei, XU Yunqiang(930)
Origin of siliceous minerals in the black shale of the Wufeng and Longmaxi Formations in the Yichang area, western Hubei Province; geological significance for shale gas	CAI Quansheng, CHEN Xiaohong, ZHANG Baomin, LIU An, HAN Jing, ZHANG Guotao, LI Yangui (946)
The relationship between sedimentary environment and organic matter accumulation in the Niutitang black shale in Zhenyuan, northern Guizhou	XIA Peng, FU Yong, YANG Zhen, GUO Chuan, HUANG Jinqiang, HUANG Mingyong (956)
Sedimentary microfacies identification and inferred evolution of the Chang 7 Member of Yanchang Formation in the Longdong area, Ordos basin	ZHANG Xiaohui, FENG Shunyan, LIANG Xiaowei, FENG Shengbin, MAO Zhenhua, REN Jisheng, CHEN Shaohua (967)
End member inversion of Xinmocun lacustrine sediments in the upper reaches of the Minjiang River and its recorded tectonic and climate events	ZHONG Ning, JIANG Hanchao, LI Haibing, XU Hongyan, LIANG Lianji, SHI Wei(981)
Application research on extraction conditions and analysis methods of active state elements	XU Jinli, XING Xia, ZHANG Pengpeng, HU Mengying, BAI Jinfeng, ZHANG Qin, WANG Xueqiu(990)
Fingerprint analysis and classification of rock surface based on laser-induced breakdown spectroscopy	ZHANG Rui, SUN Lanxiang, CHEN Tong, WANG Guodong, ZHANG Peng, WANG Wei(998)

No. 4

High-energy oncoids within the ooid-grained bank built by photosynthetic biofilms; a case study of the Cambrian Zhangxia Formation at the Sandaogou section of Huludao City in the western part of Liaoning Province	MEI Mingxiang, KHALID Latif, MENG Xiaoqing, HU Yuan(1016)
New forefin specimens and comparison of Early Triassic Ichthyopterygia from the Hubei Province	ZOU Yarui, ZHAO Bi, CHEN Gang, LI Jiangli, CHENG Long, YAN Chunbo, TAN Qiuming(1026)
Mesoproterozoic stratigraphic attribution and tectonic evolution in the southern margin of the North China Craton; evidence from the detrital zircon U-Pb geochronology and zircon trace elements	WANG Miao, ZHOU Hongrui, ZHANG Heng(1045)
Depositional age and provenance analysis of the Luanchuan Group in the southern margin of North China Craton and its significance for regional tectonic evolution; constraints from zircon U-Pb geochronology and Hf isotopes	LI Zhensheng, JIA Chao, ZHAO Zhuoya, HUO Jinjing, LI Quanzhong, ZHANG Jiaodong(1066)
The latest magma intrusion activities in the west Junggar; constraints from the Early Permian-Early Triassic Jietebutiao pluton	XU Shenglin, CHEN Xuanhua, LI Tingdong, DING Weicui, LI Bing, ZHANG Yaoyao, MA Feizhou (1090)
Sedimentary response of the Kuzigongsu Formation (J_3k) to the Tethys Ocean closing in the Sarek basin	HU Jiakun, LU Junji, YANG Fuquan(1105)
Sedimentary characteristics and depositional model of deep-water deposits dominated by gravity flow: A case study from the Lower Triassic in the Gonghe Basin	LIU Bingqiang, SHAO Longyi, WANG Weichao, HUANG Xianhao, LIU Wenjin, ZHANG Shaolin, ZHANG Hao, LU Jing (1127)
Uranium micromineralogy and geochronology of the Jiangtuo Uranium Ore Field in the Qingzhangshan granite pluton, north Guangdong; constraints on the genetic relationship with metallogenic dynamic background	LAI Jing, QI Jiaming, CHEN Junjun, LI Zhongshu, CAO Haojie(1142)
Petrogenesis of the Chashan granite in the northern Guangdong Province and its implication for the metallogenic potential of tungsten and uranium mineralization	LAN Hongfeng, WANG Hongzuo, LING Hongfei, CHEN Weifeng, WANG Kaixing, WANG Dan (1165)
The discovery and genesis of the manganese-rich rocks in the southern Beishan Mountain, China	ZHAO Zhenming, JI Wenhua, LI Wenming, SUN Jiming, ZHANG Mingzu(1182)
Spatial variability in the geochemical characteristics of the K-rich brines in the Lop Nor	WANG Kai, SUN Mingguang, MA Lichun, TANG Qingfeng, YAN Hui, ZHANG Yu(1191)

Sandstone geochemical constraints on the provenance and tectonic setting of the Banjiuguan Formation in the North Daba Mountain	ZHANG Yingli, WANG Zongqi, WANG Kunming, WANG Gang, WU Yudong(1207)
Paleontology, geochemistry and provenance of sedimentary rocks from the Triassic Langjiexue Group in the Yarlung Zangbo suture zone, Tibet and their tectonic setting	WANG Jingui, ZHANG Xinquan, WEI Wentong, ZHUAN Shaopeng, CHEN Chao, ZHANG Zhenli, CHANG Lihai, SHEN Zongyi (1226)
Identification and petrogenesis of a highly differentiated A-type granite formed in the late Mesozoic, central Jiangxi Province	FENG Shangjie, CHEN Weifeng, WANG Hongzuo, LING Hongfei, ZHAO Kuidong, CHEN Peirong(1247)
Petrology, geochemistry and zircon U-Pb geochronology of the Chaidamushan granite from the southern margin of Qilianshan	HE Xiaoyuan, YANG Xingke, WANG Yong, GUO Ruihua, LIAO Youyun, FAN Yuhai(1262)
Chronology, types and genesis of post-collisional copper bearing magmatic rocks in the Xiongmei area, the middle part of the Bangong Co-Nujiang metallogenic belt	LI Xinyuan, QU Xiaoming, MA Xudong, CHEN Wei, SUN Miao (1281)
U-Pb dating of zircon, Hf isotope composition and tectonic significance of the albite-leptite of the Lancang Group in the Shuangjiang area of western Yunnan, China	HAN Wenwen, PENG Zhimin, ZHANG Ji, GUAN Junlei, HU Jingfeng, LIU Yunhe (1294)
Paleoearthquake events and inhomogeneous activity characteristics in the Bengge-Cunge section of the Litang fault zone in the western Sichuan Province	ZHANG Keqi, WU Zhonghai, ZHOU Chunjing, TIAN Tingting, LI Yuehua, LI Jiacun (1303)
Sediment formation in Qu Yuan Town in the Three Gorges Valley and its implications for the geo-environment division	ZHANG Yufen, LI Changan, SUN Xilin, WEI Chuanyi, LI Yawei(1314)
Application of comprehensive geophysical-drilling exploration to detect the buried Shunyi active fault belt in Beijing	QI Bangshen, PAN Zhifeng, FENG Chengjun, TAN Chengxuan, ZHANG Peng, MENG Jing, SUN Mingqian, YANG Xiaoxiao, LEI Xiaodong, SHI Hanjing, YI Bing (1329)
No. 5	
Tectono-magmatic events in Tianshan Mountains and adjacent areas during Yanshanian Movement period	ZHU Wenbin, WANG Fujun, CAO Yuanyuan, WANG Shengli(1346)
Skeleton components of Permian-Lower Jurassic clastic rocks in NW margin of Junggar basin: tracing to provenance and tectonic settings evolution	YU Yuanjiang, HU Suyun, HE Dengfa(1366)
Forming age and paleoclimate of Manketouebo Formation in Manzhouli-Xinbarhuyouqi area	BAI Yuling, WANG Tao, WANG Zongqi, KANG Xiaolong, GU Xinyu, QIU Guangdong, WANG Dongxing, Yan Jie (1381)
Sedimentary characteristics of the Pridolian Series in Baoshan, Yunnan Province and their implications for paleomarine environment	PAN Ming, HAO Yanzhen, SUN Chengjie, LÜ Yong, SHAN Keqiang(1396)
Petrogenesis of the Liaohe Group from the Heigou area in the eastern Liaoning Province: constraints on tectonic evolution of the Liao-Ji orogenic belt	YANG Yuwei, YU Chao, SU Te, DONG Yang, WANG Guangwei, TIAN Yi, BAO Dongming (1412)
Early Cenozoic metamorphism of the sedimentary rocks from the eastern Gangdese magmatic arc and its tectonic implications	ZHANG Chengyuan, ZHANG Zeming, DING Huixia, CHEN Yanfei, QIN Shengkai, JIANG Yuanyuan, KANG Dongyan, LI Wentan (1430)
Petrogenesis and tectonic implications of the Mangya A type alkali-feldspar granites in the South Altun, Northwest China	XU Nan, WU Cailai, ZHENG Kun, GAO Dong(1449)
Paleozoic magmatic activity in the Kawabulake area, eastern Xinjiang and its indicative significance for tectonic affinity to the Central Tianshan block	MUZHAPAER • Muhetaer, NIJIATI • Abuduxun, GUO Ruiqing, Gong Xiangkuan, CUI Tao, SONG Zhihao (1461)
LA-ICP-MS zircon U-Pb dating and geochemistry of the Late Paleozoic sanukitoids in the Hongshan area, west Junggar	MA Feizhou, CHEN Xuanhua, XU Shenglin, MA Fen, HAN Lele, DING Weicui, WANG Ye(1481)
The thermodynamic phase diagram and the ore-forming mechanism of the Dongjun Pb-Zn-Ag deposit	XIE Wei, WEN Shouqin, TANG Tieqiao, MA Pengcheng(1504)
Provenance of bauxite deposits in the Nanchuan district, Chongqing: evidence from U-Pb dating, Hf isotopes and trace	

elements in detrital zircons	ZHONG Hairen, SUN Yan, ZHAO Zhi, WANG Chenghui(1524)
Characteristics and controlling factors of tight sandstone reservoir fractures of the Xujiache Formation in the	
Bazhong-Tongnanba area, Northeast Sichuan	JIANG Youlu, LI Mingyang, WANG Liangjun, (1537)
	LIU Jingdong, ZENG Tao, ZHAO Chengjin
Accurate lithologic evaluation of tight reservoirs and fine oil-source correlation of millimeter-scale samples: a case study	
of the QP1 well in northern Songliao basin	ZHANG Juhe, ZHANG Bowei, FENG Zihui, (1550)
	SHAO Hongmei, HUO Qiuli, YAN Renqin
Well logging identification and evaluation of depositional microfacies in dolostones from the 5th Member of the Ordovician	
Majiagou Formation in the Jingbian gas field, Ordos basin	
.....	LAI Jin, LIU Bingchang, FENG Qingfu, PANG Xiaojiao, (1567)
	ZHAO Taiping, WANG Guiwen, WANG Shuchen, CHEN Jing
Study on shale heterogeneity in western Hunan and Hubei: a case study of the Longmaxi Formation in well Ld1	
.....	ZHANG Peng, HUANG Yuqi, ZHANG Jinchuan, LI Bo, LIU Hongyang, YANG Junwei(1577)
The lateral accretion styles and its evolution of point bar for the Qigu Formation of Jurassic in Junggar basin	
Toutunhe river	YAO Zongquan, DELEQIATI • Jianatayi, ZHANG Mingyu, (1590)
	SU Le, WANG Wenfeng, PAN Pinbai, HUANG Bochao
Characteristics of regional and geothermal geology of the Reshuiquan HDR in Guide County, Qinghai Province	
.....	ZHANG Senqi, WU Haidong, ZHANG Yang, SONG Jian, ZHANG Linyou, XU Weilin, (1605)
	LI Dunpeng, LI Shengtao, JIA Xiaofeng, FU Lei, LI Xufeng, FENG Qingda
Heat accumulation and water enrichment mechanism of piedmont karstic geothermal reservoirs: a case study of	
northern Jinan	KANG Fengxin, SUI Haibo, ZHENG Tingting(1624)
The structure and distribution characteristic of clay minerals in bedding parallel to the shear zone of the Neogene soft rock	
.....	XIN Peng, SHI Jusong, HU Le, WANG Tao, WU Shuren(1637)
Regional characteristics and evolutionary trend prediction of land subsidence caused by groundwater over exploitation	
in North Shandong of the North China Plain	DI Shengtong, JIA Chao, ZHANG Shaopeng, (1654)
	DING Pengpeng, SHAO Ming, ZHANG Yongwei
Analytical techniques for tellurium stable isotopes and their geological applications: a review	
.....	CHEN Jiajie, LENG Chengbiao, XU Deru, WANG Dazhao, LI Kaixuan(1663)
The acoustic log method of estimating gas hydrate saturation in gas hydrate reservoirs	
.....	XIAO Kun, ZOU Changchun, LU Zhenquan, LI Hongxing, QIN Zhen, GE Kunpeng(1674)

No. 6

Anisotropy of magnetic fabrics of the Late Cenozoic sedimentary succession in the southern West Tianshan Mountain	
and their tectonic implications	CHEN Xinwei, CHEN Hanlin, LIN Xiubin, CHENG Xiaogan, NIE Mei(1688)
Spatial variation and controlling factors of deformation in the western segment of the southern Tianshan fold-thrust belt	
.....	YU Hongdian, CHEN Hanlin, CHENG Xiaogan, ZHANG Yuqing, XIN Wen, LIN Xiubin, YANG Shaomei (1703)
Analyzing the influence of factors that control the structural deformation of fold-thrust belts in the southwestern	
Tianshan using discrete element simulations	XIN Wen, CHEN Hanlin, AN Kaixuan, ZHANG Yuqing, (1715)
	YANG Shufeng, CHENG Xiaogan, LIN Xiubin
The palaeo uplift of Late Cretaceous and tectonic stress field reconstruction of the eastern Kuqa depression	
.....	WANG Ke, CAO Ting, WEI Hongxing, XIAO Ancheng, ZHOU Lu(1726)
Two-dimensional balanced restoration of salt structures and analysis of restored cross sections in the western	
Kuqa depression	GAO Lin, WANG Xin, RAO Gang(1739)
Numerical simulation of different subsalt structural features and their evolution in the eastern and western segments	
of the Kuqa depression	XU Wenqiao, WANG Wei, YIN Hongwei, JIA Dong, (1751)
	LI Changsheng, YANG Gengxiong, LI Gang
The effect of pre-existing weak zone on the formation of the Pamir Salient: insights from physical analogue modeling	
.....	CAO Yuping, CHEN Hanlin, LIN Xiubin, CHENG Xiaogan, YANG Rong, WU Lei, SHI Xuhua(1762)
Analogue modeling on thickness and property differences of shallow <i>décollement</i> along the strike: insights into the	
Wushi and Kuqa fold and thrust belts	LONG Yi, CHEN Hanlin, CHENG Xiaogan, (1779)
	LIN Xiubin, ZHANG Yao, CHENG Ya

Analogue modeling of non-rigid bookshelf fault model in eastern Tibet Plateau	LIU Jun, JIA Dong, YIN Hongwei, SHEN Li, FAN Xiaogen, YANG Shuang(1792)
Formation and evolution of the Caledonian paleo-uplift and its genetic mechanism in the Sichuan Basin	SU Guiping, LI Zhongquan, YING Danlin, LI Gen, YING Wenfeng, (1812) YANG Yuanyu, LIU Henglin, DING Xiao, TANG Huaqiang
Permian-Triassic depositional environmental evolution and the prototype basin of the southern Junggar Basin	PANG Zhichao, JIAO Yue, YUAN Bo, WANG Jialin, WEI Lingyun, (1838) TANG Xueying, ZHOU Yanxi, WU Chaodong
Genesis of alkaline lacustrine deposits in the Lower Permian Fengcheng Formation of the Mahu Sag, northwestern Junggar Basin; insights from a comparison with the worldwide alkaline lacustrine deposits	LI Wei, ZHANG Yuanyuan, NI Minjie, TANG Wenbin(1852)
Discoveryof carotenoids and its paleolake significance in the Oligocene Anjihaihe Formation, southern Junggar Basin, China	MA Jian, WU Chaodong, WANG Yizhe, JIAO Yue, ZHOU Jiaquan, LENG Jiaxuan, CUI Xingqian(1867)
Discovery of Permian mafic sills intrusion event in the Sinian system, Northwest Tarim block	WU Hongxiang, HUANG Weikang, LI Yinqi, LIN Xiubin, (1882) CHEN Hanlin, CHENG Xiaogan, ZHANG Fengqi
Origins and hydrocarbon accumulation significance of bitumen in the deeply buried Jurassic reservoirs in the southern Junggar Basin	HU Hanwen, ZHANG Yuanyuan, GUO Zhaojie, ZHUO Qingong(1895)
Estimation of subsurface formation temperature and its implications for hydrocarbon generation and preservation in the upper Yangtze area, south China	LI Xianglan, LIU Shaowen, XU Ming, LI Xudong, HAO Chunyan(1910)
Seismotectonics of the March 2019 Mw 5.0 Mangya earthquake in the Qaidam Basin and borehole damage analysis	ZHANG Changhao, YANG Yizhou, GUO Zhaojie, ZHU Lilin(1922)
No. 7	
Main hydro-geothermal systems and their genetic models in China	WANG Guiling, LIN Wenjing(1937)
Distribution of geothermal field and its controlling factors in the Weihe basin	REN Zhanli, LIU Runchuan, REN Wenbo, QI Kai, YANG Guilin, (1949) CUI Junping, YANG Peng, ZHANG Yuanyuan
Terrestrial heat flow and lithospheric thermal structure in the middle Yanshan region—a case study from the Qijia-Maojingba geothermal field in Chengde	LIU Feng, WANG Guiling, ZHANG Wei, YUE Chen, (1959) LU Chuan, HUANG Qiwei, OU Xiaoke
Geothermal lithospheric thickness in the central Jizhong depression and its geothermal significance	CUI Yue, ZHU Chuanqing, QIU Nansheng, TANG Boning, GUO Sasa(1969)
Study on the thermal storage characteristics of the Wumishan Formation and huge capacity geothermal well parameters in the Gaoyang low uplift area of Xiong'an New Area	WANG Guiling, GAO Jun, ZHANG Baojian, (1980) XING Yifei, ZHANG Wei, MA Feng
Structure of geothermal reservoirs and resource potential in the Rongcheng geothermal field in Xiong'an New Area	MA Feng, WANG Guiling, ZHANG Wei, ZHU Xi, ZHANG Hanxiong, YUE Gaofan(1990)
Geochemical characteristics of the geothermal fluid in the Rongcheng geothermal field, Xiong'an New Area	ZHAO Jiayi, ZHANG Wei, MA Feng, ZHU Xi, ZHANG Hanxiong, WANG Guiling(2001)
Characteristics of the karst thermal reservoir in the Wumishan Formation in the Xiong'an New Area	TANG Boning, ZHU Chuanqing, QIU Nansheng, CUI Yue, GUO Sasa, CHEN Chi(2012)
Dynamic prediction of geothermal recoverable resources in the Rongcheng uplift area of the Xiong'an New Area	HU Qiuyun, GAO Jun, MA Feng, ZHAO Zhihong, LIU Guihong, (2025) WANG Guiling, ZHANG Wei, ZHU Xi, ZHANG Baojian, XING Yifei
Formation conditions and favorable areas for the deep geothermal resources in Xiong'an New Area	GUO Sasa, ZHU Chuanqing, QIU Nansheng, TANG Boning, CUI Yue(2035)
Genesis and indicative significance of hot dry rock in Matouying, Hebei Province	ZHANG Baojian, LI Yanyan, GAO Jun, WANG Guiling, LI Jun, XING Yifei, ZHAO Tian(2051)
Geological model of heat source and accumulation for geothermal anomalies in the Gonghe basin, northeastern Tibetan	

Plateau	TANG Xianchun, WANG Guiling, MA Yan, ZHANG Dailei, LIU Zhong, ZHAO Xu, CHENG Tianjun	(2065)
Geothermal, geological characteristics and exploration direction of hot dry rocks in the Xiamen bay-Zhangzhou basin, southeastern China	LIN Wenjing, CHEN Xiangyang, GAN Haonan, YUE Gaofan	(2077)
Heat production rate calculation using gamma-ray logging of the sedimentary formation in the Tarim basin, Northwest China	LUO Xin, ZHU Chuanqing, ZHANG Baoshou, TANG Boning, CHEN Tiange	(2088)
A study of effective thermal conductivity in the North China Plain based on in situ thermal response tests	WANG Wanli, WANG Guiling, LIU Chunlei, LI Jun	(2095)
Analysis of geothermal occurrence characteristics and origin of the thermal anomalies in the hidden igneous rock area in the central Guangdong	GAN Haonan, LIN Wenjing, YAN Xiaoxue, YUE Gaofan, ZHANG Wei, WANG Guiling	(2106)
A study on the reaction kinetics of regular mud acid and granite	YUE Gaofan, LI Xiaoyuan, GAN Haonan, WANG Guiling	(2114)
Study of the interaction between the granitic hot-dry rock (HDR) and different injection waters	ZHAO Yuhui, FENG Bo, ZHANG Guobin, SHANGGUAN Shuantong, QI Xiaofei, LI Xiang, QIAO Yongchao, XU Jianan	(2123)
Numerical simulation of granite hydraulic fracture propagation under the influence of natural fractures	WANG Huang, WANG Guiling, YUE Gaofan, GAN Haonan	(2130)
Calculation of geothermal resources based on parameter identification—a case study from the western slope of the Yinchuan plain	HE Yujiang, DING Xiang	(2138)
Performance analysis of deep borehole heat exchanger through filling leakage formation using high thermal conductivity material	BU Xianbiao, JIANG Kunqing, LI Huashan, WANG Lingbao	(2146)
Study on application of deep thermal reservoir by using geophysical and geochemical methods in the Jizhong depression zone	MIAO Qingzhuang, WANG Guiling, XING Linxiao, ZHANG Wei, ZHOU Xiaoni, WANG Weiqiang	(2156)
Numerical study and application of acid-fracturing in the carbonate geothermal reservoirs from North China	XU Haoran, CHENG Jinru, ZHAO Zhihong	(2165)
Research on the key technology for the investigation and evaluation of the hot dry rock geothermal resources in Lijin	TAN Xianfeng, LIU Xiao, WANG Guiling, WANG Hao	(2176)

No. 8

Scientific drilling project of granite-pegmatite-type lithium deposit in western Sichuan: scientific problems and significance	XU Zhiqin, WANG Rucheng, ZHU Wenbin, QIN Yulong, FU Xiaofang, LI Guangwei	(2189)
The dominant factors of the Yanshan intracontinental orogeny seen from its deep background	SHAO Ji'an	(2199)
The Early Carboniferous A-type granite in Nuominhe area, northern Da Hing'an Mountains: geochronology, geochemistry and Hf isotope studies	WU Zijie, WANG Yang, CUI Peilong, QIU Longwei, WANG Haipeng, ZHONG Mishan	(2211)
Chronology, geochemistry and zircon Hf isotopes of the Paleoproterozoic alkali feldspar granite from the Heigou area in the eastern Liaoning Province: constraints on the tectonic evolution of the Liao-Ji orogenic belt	YANG Yuwei, YU Chao, WANG Guangwei, SU Te, YANG Xinyu, ZHANG Tianyuan	(2226)
Study of material composition and tectonic properties of the Duerji tectonic melange, Inner Mongolia	JIN Song	(2242)
Petrogenesis of the Late Silurian-Early Devonian granites in the Longshoushan-Helishan area, Gansu Province, and its tectonic implications for the Early Paleozoic evolution of the southwestern Alxa Block	WANG Zengzhen, CHEN Xuanhua, SHAO Zhaogang, LI Bing, DING Weicui, ZHANG Yiping, WANG Yongchao, ZHANG Yaoyao, XU Shenglin, QIN Xiang	(2261)
Origin of quartz diorite in the Munabulake area, South Altyn Tagh: constraints from geochemical characteristics, zircon U-Pb dating and Lu-Hf isotopic composition	GAO Hui, CAO Yuting, LIU Liang, WANG Chao, KANG Lei, YANG Wenqiang, CHEN Xiaohong	(2278)
Genesis and geological significance of manganilvaite in the Niukutou deposit, Qinghai Province	WANG Xinyu, ZHU Xinyou, LI Jiaduo, WANG Yuwang, LONG Lingli, LI Shunting, WU Jinrong, CHENG Xiyin, JIANG Binbin	(2290)
Petrogenesis, source, tectonic evolution and mineralization process of the Miocene porphyry Cu deposits in the Tethyan metallogenic domain	LÜ Pengrui, YAO Wenguang, ZHANG Huishan, ZHANG Haidi, HONG Jun, LIU Shengrong	(2310)
Constraints on the ore-forming source material of the Longshan Au-Sb deposit in central Hunan: evidence from S, Pb and Sr isotopes	CAI Yingxiong, YANG Hongmei, QIU Xiaofei, MEI Yuping, TONG Xirun, TAN Juanjuan, LIU Chongpeng	(2324)

Sulfur and lead isotope tracing for sources of ore-forming material and ore-forming age of the Zhilingtou Mo-Pb-Zn-Au polymetallic deposit in the Zhejiang Province	CHU Kelei, CHEN Xiaorong, QI Gang, (2340) GAO Xiang, HU Bo, LI Shengjin
The application of comprehensive prospecting methods on the hard rock type lithium deposit——a case study of the Jiada lithium mine in the Maerkang rare metals orefield	MA Shengchao, WANG Denghong, LIU Shanbao, WANG Chenghui, DAI Hongzhang, RAO Kuiyuan, DING Xiaoping, ZHU Haiyang, DENG Ziqing, GUO Weipeng(2353)
Zircon U-Pb age and stratigraphic significance of the newly discovered tuff layers in the Dingqinghu Formation, West Lunpola Basin	ZENG Shengqiang, WANG Jian, CHEN Wenbin, FU Xiugen, SUN Wei, LI Jinfeng, LIU Junhao(2366)
Oxygen fugacity of the intrusion III-2 in the Baogutu porphyry copper deposit, Xinjiang: evidence from mineral compositions	WEI Shaoni, ZHU Yongfeng, AN Fang(2382)
Metallogenic background and metallogenic model of the Early Cretaceous magnetite deposit in the Nixiong area, Tibet	LIU Han, LI Jun, CUI Haojie, GOU Zhengbin, LI Fenqi, ZHANG Shizhen, DUAN Yaoyao(2399)
Depositional provinces and tectonic background of the Zhuwo Formation in the Jiajika region, western Sichuan Province: evidence from detrital zircon U-Pb ages	QIN Yulong, LI Mingze, XIONG Changli, ZHAN Hanyu, (2409) XU Yunfeng, WU Wenhui, LI Zheng
Characteristics of the strike-slip fault system and their control actions on the hydrocarbon accumulation for Weibei sag	CHEN Dengchao, YANG Guili, MA Lichi, LIU Xiaolin, XIN Ye, (2421) TIAN Wen, WANG Yuanyuan, WANG Zhiying, HAO Ranran
The different extension and strike-slip mechanism and its accumulation controlling effect in Wenchang B sag	JIANG Rufeng, ZHOU Jiaxiong, YANG Xibing, YOU Junjun, LI Shanshan, CHEN Lin, ZHANG Xia(2432)
Sedimentary environmental evolution of the Dalinghe Estuary area since the Late Middle Pleistocene	SHANG Zhiwen, LI Jianfen, JIANG Xingyu, LI Yan, WANG Hong(2445)
Preliminary microfacies division and significance study of nearshore subaqueous fan: a case study from the Lower Cretaceous Xiguayuan Formation, Luanping basin	BAI Like, QIU Longwei, YANG Yongqiang, DU Yushan, WANG Jun, (2459) HAN Xiaotong, DONG Daotao, YANG Baoliang, WANG Lifang
New knowledge on the Hongguleleng Formation and Devonian-Carboniferous boundary in western Junggar, Xinjiang	ZONG Ruiwen, WANG Zhihong, FAN Ruoying, SONG Junjun, ZHANG Xinsong, SHEN Zhen, GONG Yiming(2475)
Summary and exploration of analysis experiment technology on fossil plant cuticles	WANG Xuelian, XIONG Conghui, SUN Bainian, WU Jingyu, DU Baoxia(2486)
Inversion of seismic hazard of the Xianshuihe fault by cross-fault and GPS crustal deformation data	YIN Haiquan, GUO Xiangyun, CHANG Ming, ZHAN Wei, LI Layue, XU Dongzhuo(2499)
Analysis of in-situ stress state and dynamic background before the 2015 Jinkouhe $M_s5.0$ earthquake	LI Bing, DING Lifeng, GUO Qiliang, JIANG Dawei, XIE Furen(2508)
Study of large karst springs using the time series fractal method in Jinan	YU Miao, XING Liting, WU Jichun, HOU Yusong, ZHU Henghua, PENG Yuming, LI Gang(2519)
Review of thermal-infrared spectroscopy applied in geological ore exploration	DAI Jingjing, ZHAO Longxian, JIANG Qi, WANG Haiyu, LIU Tingyue(2533)
Study on high-precision imaging method of carbonate reservoir	GU Bingluo, HAN Jianguang, CHEN Jun, HUANG Jianping, LI Zhenchun(2544)
Fusion and evaluation of airborne gravity data and ground gravity data in sea-land transition zone	ZHANG Wan, ZHANG Xuanjie, LI Xiao, TONG Jing, FAN Ziliang(2555)

No. 9

Evaluating the diamond potential of kimberlite-hosted diamond deposits from the North China Craton	NI Pei, ZHU Renzhi(2573)
Formation conditions of primary diamonds and thoughts on their prospecting in China	XIANG Lu, ZHENG Jianping(2587)
Diamonds and other unusual minerals in global ophiolites	LIU Fei, YANG Jingsui, LIAN Dongyang, XIONG Fahui, WU Weiwei(2605)
Types, sources, and regional crust-mantle evolution background of diamonds in the western Shandong Province	SONG Mingchun, YU Xishun, SONG Yingxin, XIAO Bingjian, (2625) ZHOU Dengshi, GAO Cunshan, FENG Aiping
Deep source characteristics of the kimberlite and alkaline intrusives in the Shandong segment of the Tan-Lu fault belt and	

their resource and energy significance	ZENG Pusheng, ZHAO Jiujiang, WEN Ligang, (2639) WANG Shuangqing, ZHANG Xiaotao, WANG Shi'an
Analysis of kimberlite emplacement mechanism in the Wafangdian diamond ore field	FU Haitao(2649)
Study of kimberlite type diamond deposit and its metallogenic model—an example of the primary diamond deposit in the Wafangdian area of Liaoning Province	LIU Liguang, WU Datian, HAN Shuang, (2665) WAN Fanglai, LIN Shaoquan, YANG Xianzhong
The magmatic intrusive sequence and the metallogenic model of diamondiferous kimberlite in the Mengyin area, western Shandong	ZHANG Chengji, TIAN Jingxiang, CHEN Wentao, ZHANG Zengqi, DU Shengxian(2675)
Petrography and petrogenesis of porphyritic kimberlite from South Liaoning	 WANG Siqi, ZHENG Jianping, HAN Shuang, WANG Junlie(2686)
Study of diamond characteristics and its inclusions in diamonds from the Tancheng placer, Shandong Province	 LÜ Qing, GE Yuejin, XIAO Bingjian, JIAO Yongxin, FENG Aiping, LI Xinfeng(2697)
Metamorphic <i>P-T-t</i> path of mafic granulite in the Bashiwake area, South Altyn Tagh	 GUO Jing, LI Yunshuai, ZHANG Jianxin(2711)
Characteristics and research significance of diamond prospecting indicator minerals in the Dajingtou area, western Shandong Province	WANG Yufeng, XIAO Bingjian, SONG Mingchun, FU Pengyuan, (2727) ZHU Chenghe, ZHAO Jun, GAO Cunshan, XU Yanming
A discussion on the relationship between Xiyu kimberlite pipe and regional tectonic characteristics	 LI Wei, CHEN Jianping, CHU Zhiyuan, XU Lei(2735)
A discussion on the origin of basite type diamonds in the southern part of North China Craton: evidences from FTIR	 CAI Yitao, ZHANG Jie, SHI Jianbin, ZHOU Qizhong, MA Yuguang, LIU Jiqiang, (2747) QU Mingchen, WAN Fanglai, XU Hua, XIAO Binjian, WU Xiangke, YUAN Qiuyun
Geological characteristics of the Bailushan rock mass and its relationship with diamond genesis in Xuzhou, Jiangsu Province	ZHOU Qizhong, ZHANG Qi, FENG Xuezhi, WANG Bo, QIU Lei, WANG Guoqiang, HUANG Youbo(2762)
A discussion on key points in diamond prospecting based on case studies in Canada	DING Yi(2771)
Deep comprehensive geophysical characteristics and significance of the Xiyu kimberlites in the Mengyin County, Shandong Province	CHENG Guangsuo, LIU Weidong, CHU Zhiyuan, (2782) ZHOU Jun, ZHAO Deqing, HU Ge, LIANG Taitao
Characteristics of regional gravity, magnetic anomalies and deep structural geological background of primary diamond deposits in the western Shandong Province	ZHANG Jiantai, YU Lei, LIU Chuanpeng, (2795) LI Zhaoying, WANG Weide, GAO Lingju

No. 10

Growth, thickening and evolution of the thickened crust of the Tibet Plateau	 HOU Zengqian, ZHENG Yuanchuan, LU Zhanwu, XU Bo, WANG Changming, ZHANG Hongrui(2815)
A new oospecies of dinosaur eggs from the Upper Cretaceous in the Xichuan Basin, Henan Province	 JIA Songhai, FANG Kaiyong, GAO Diansong, GAO Yongli, CHANG Huali, CHANG Fei, (2822) XIAO Le, YANG Lili, ZHENG Yalin, ZHU Xufeng, WANG Qiang, WANG Xiaolin
Buried depth evolution and hydrocarbon generation history of the Jurassic System in central Qiangtang Basin	 WU Zhenhan, JI Changjun, ZHAO Zhen, CHEN Chen(2833)
Tectonic evolution since the Mesozoic of the Nanzhao area in southeast of the Ordos Basin;evidence from low-temperature thermal chronology	HAN Wei, LI Yuhong, LIU Xi, CHEN Gaochao, ZHANG Yunpeng(2843)
Determination of metallogenic age and prospecting significance of the Baiyinnuoer lead-zinc deposit in the southern Da Hinggan Mountains	JIANG Binbin, ZHU Xinyou, HUANG Xingkai, ZOU Tao, XU Qiao, LIU Zi(2855)
The controlling effect of Cenozoic tectonic evolution on the mineralization of sandstone-type uranium deposits in the Songliao Basin: evidence from apatite fission tracks	LI Chenghui, CHENG Yinhang, WANG Tiejun, WANG Shaoyi, (2873) ZHANG Tianfu, CHENG Xianyu, ZHANG Xiawei, LI Yanfeng
The formation mechanism of tabular orebody of sandstone-type uranium in the northern Ordos Basin; constraints on the study of kaolinite content from different zones of ore-bearing sandstone	DING Bo, LIU Hongxu, ZHANG Bin, YI Chao, (2882) LIU Hongjun, WANG Gui, REN Zhiyong
Constraints on the geochronology of porphyry-skarn copper deposit from U-Pb dating of garnet; a case study of the Sangri copper deposit, Tibet	LIN Bin, CHEN Lei, LIU Zhenyu, TANG Juxing, ZOU bin, HE Wen(2892)

Genesis and tectonic significance of the Mangqisu pluton in the South Tianshan; evidence from geochronology, geochemistry, and Nd-Hf isotopes	YU Xinhui, QIN Qie, HUANG He, WANG Tao, ZHANG Zhaochong, TONG Ying, GUO Lei, SONG Peng	(2918)
Genetic link between the Axi and the Tawuerbieke gold deposits, Xinjiang Province; constraints from fluid inclusions, S-Pb isotopes and thermoelectric characteristics of pyrite	PENG Yiwei, GU Xuexiang, ZHANG Yongmei, WANG Xinli, ZHENG Shaohua, WANG Guannan	(2945)
Metallogenic epoch of the carbonatite-type Mo-U polymetallic deposit in east Qinling; evidence from the monazite LA-ICP-MS U-Pb and molybdenite Re-Os isotopic dating	WANG Jiaying, LI Zhidan, ZHANG Qi, LI Chao, XIE Yu, LI Guangyao, ZENG Wei, DING Ning	(2964)
Research and application of gold exploration theory and technology in the thickly covered area of southern Tanlu fault zone; considering the overall exploration of the Wuhe gold mine in northeast Anhui province as an example	WANG Qingsong, ZHANG Shunlin, ZHANG Jinhui, ZHANG Jiajia, YOU Miao	(2977)
Geochemical characteristics and geochronology of the Cenozoic diopside syenite and diopside granite from Kuzigan, Western Kunlun area	YUAN Yajuan, CHEN Weiyan, XIA Bin, ZHANG Yuquan, XIAO Jinguo, ZHOU Houyun	(2993)
Petrogenesis of the Middle granitoids intrusion and its significance in Luolei district, Roshipina area, Namibia; evidence from geological, geochronological and geochemical characteristics	HUANG Yingcong, CHEN Dunli, WANG Wenjun, WAN Jiang, MENG Gaoyuan, XIAO E, WANG Yanfen, LIU Jing	(3007)
The control effect of metallotectonic system on lead-zinc metallogenic system; a case study of the Huize deposit, Yunnan Province	WANG Mingzhi, HAN Runsheng, ZHANG YAN	(3023)
Detrital zircon U-Pb ages and K-feldspar main and trace elements provenance studying from fluvial to marine sediments in northern China	LIN Xu, LIU Jing, WU Zhonghai, WANG Shimei, ZHAO Xitao, CHEN Yong, LI Zhaoning, LIU Haijin	(3035)
Lacustrine storm and tempestite of Lower Cretaceous in the Lingshan island, Qingdao, Shandong	ZHONG Jianhua, NI Liangtian, SUN Ningliang, HAO Bing, XUE Chunqi, SHAO Zhufu, MAO Cui, SONG Guanxian, GE Yuzhu, CHEN Bin, LIU Shengxin, CAO Mongchun, LIU Chuan, PENG Chaofeng, GU Donghui, WANG Chaoning, WANG Yongqiang, LI Cong	(3061)
Research on the controlling effect of quantitative analysis and evaluation of fault activity on oil and gas accumulation in Qikou sag of Bohai Bay Basin	WANG Hongyu, FU Xiaofei, WANG Haixue, CHEN Mo, MENG Lingdong, PING Guidong	(3073)
Elemental geochemistry characteristics and their petroleum geological implications for the Upper Wuerhe Formation in Well Block Jinlong-30 of the Zhongguai Uplift, Junggar Basin	LI Jiasi, YU Xing, ZHU Tao, YAN hong, ZHANG Shuncun, YANG Yongheng, ZOU Niuniu	(3089)
Definition of seismogenic fault for the 1588 Tonghai-Quijiang M7.0 earthquake in the Yunnan Province and future strong earthquake risk at the southern end of Xiaojiang fault zone	HU Mengmeng, WU Zhonghai, HUANG Xiaolong, LI Haomin	(3105)
Characteristics of aero-electromagnetic field and its prospecting significance in the Wulong gold deposit, Liaodong Peninsula	SHI Liancheng, LUO Yan, JIANG Minzhong, WANG Zhihong, ZHU Lin, CHEN Wei, HAN Penghui, CHEN Zhipeng	(3119)
Characteristics of vegetation evolution and its driving factors since 3 Ma in North China	HU Yunzhuang, YANG Jilong, LI Ying, ZHOU Xinying, LIU Hongwei, SHANG Zhiwen	(3129)
Environmental evolution recorded in a saline lake on the northern Qiangtang Plateau in Tibet since Late Middle Pleistocene	LI Jinsuo, LIU Xifang, NIU Xinsheng, SHANG Bin, LI Guochen	(3143)
The capture of the Songhua River system in the late Early Pleistocene; geochemical and sedimentological records	WU Peng, XIE Yuanyun, KANG Chunguo, CHI Yunping, WEI Zhenyu, WANG Jiaxin, ZHANG Man, ZHANG Yuexin, LIU Lu	(3160)

No. 11

Seismogenic structures of the south Sichuan basin seismic zone and its neotectonic setting	ZHANG Yueqiao	(3177)
A newly discovered active fault on the Selaha-Kangding segment along the SE Xianshuihe fault; the South Mugecuo fault	PAN Jiawei, LI Haibing, Marie-Luce CHEVALIER, BAI Mingkun, LIU Fucui, LIU Dongliang, ZHENG Yong, LU Haijian, ZHAO Zhongbao	(3188)
Lithogeochemical and mineral chemical footprints of porphyry Cu±Mo±Au deposits; a review	LENG Chengbiao, CHEN Xilian, ZHANG Jingjing, MA Xiaohua, TIAN Feng, GUO Jianheng, ZHANG Lejun	(3212)
Upper Ordovician conodont and graptolite biostratigraphy of Pingliang, Gansu Province, China	FAN Ru, MA Xueying, LÜ Dan, LU Yuanzheng, ZHANG Xuelei, ZHANG Yuandong, DENG Shenghui, TAN Cong, SONG Haonan, ZHANG Fenglian, LI Xin, ZHANG Shibei, DUAN Wenzhe	(3227)
Saline lacustrine palustrine sediments and microbialite in the upper Youshashan Formation in the western Qaidam basin	WANG Jiangong, ZHANG Daowei, BAI Yadong, SUN Xiujian, LI Xiang, WANG Aiping, ZHANG Shiming, YI Dinghong, YANG Wei	(3248)
High precision aeromagnetic characteristics and Curie depth analysis of the Hainan Island	GAO Wei, GUO Zhihong, ZHOU Jianxin, MENG Qingkui, SHU Qing, WANG Chun	(3262)

Analysis of denudation degree in the Hongshan alkaline rock mass, Yongnian County, Hebei Province	
..... LI Suimin, ZHOU Zhengzhu, LI Tong, LI Yucheng, ZHAO Shumei, HAN Tengfei, SUN Zhiwei, FANG Yongyong(3271)	
Geochronology, geochemistry and geological significance of the syenogranitic granites in the Qieqiong area, Tibet	
..... GAO Qiang, YAN Maoqiang, WEI Junhao, ZENG Cheng, LIU Yan, QIN Bo, JIANG Wei(3292)	
Genetic relationship between granite and pegmatite in Kalu'an hard-rock-type lithium deposit in Xinjiang: results from zircon U-Pb dating, Hf-O isotopes and whole-rock geochemistry	
..... LIU Tao, TIAN Shihong, WANG Denghong, ZHANG Yujie, LI Xianfang, HOU Kejun, (3319)	JIEKEN · Kalimuhan, ZHANG Zhongli, WANG Yongqiang, ZHAO Yue, QIN Yan
Lithium element enrichment and inspiration for prospecting for rare-metal mineralization in the Dahutang tungsten deposit: constraints from mineralogy and geochemistry of hydrothermal alteration	ZHANG Yong, PAN Jiayong, MA Dongsheng(3342)
Genesis of the Taiyanggou molybdenum deposit in the eastern Hebei Province: evidence from chronology, geochemistry and S, Pb isotopic compositions	XU Guoxin, LI Yujing, SUN Jinlong, HE Yue, ZHAO Di, LIU Xiaobo, WANG Dan(3360)
LA-ICP-MS zircon U-Pb age of the host rock and hydrothermal zircon in gold-bearing quartz vein of Shuangkoushan Au-Ag-Pb deposit, North Qaidam; limitation for the mineralization age and implication for the genesis of the deposit	
..... YU Junzhen, ZHENG Youye, XU Rongke(3375)	
Metallogenic epoch study on the Shangxu gold deposit, Bangong-Nujiang suture zone, Tibet and its geological implications	
..... FANG Xiang, SONG Yang, TANG Juxing, WANG Jiaxing, LI Haifeng(3390)	
Fluid inclusions and stable isotopes study of Yanshan gold deposit in the Penglai area, eastern Shandong Province	
..... MA Shunxi, BAI Yina, SUN Yonglian, SHU Jide(3403)	
Characteristics of uranium-bearing minerals in Yangzhuang granite porphyry in the Xuemistan metallogenic belt and its significance for uranium metallogenesis	LI Guanglai, CHEN Guangxu, LIU Xiaodong, LI Chengxiang, (3420)
..... WANG Guo, LIU Xiaobo, LIU Zhengyu, LONG Weikang	
Characteristics and resource potential of main shale gas reservoirs in Shandong Province	
..... ZHANG Chunchi, PENG Wenquan, HU Caiping, LI Zheng, GAO Bingyan, LI Zhimin, (3435)	ZHANG Wen, WANG Yingpeng, GAO Huali, ZHANG Guili, SONG Liang
The origin of bitumen and its significance for hydrocarbon accumulation process	
..... WANG Zhaoyun, MA Chao, GONG Deyu, JIANG Hua(3448)	
Development pattern of two types of exceptional Cretaceous source rocks in the rift systems in West and Central Africa	
..... CHENG Dingsheng, DOU Lirong, ZHANG Guangya, LIU Bang, SONG Huanxin, (3460)	LIU Jiguo, MAO Fengjun, YUAN Shengqiang, HU Ying
The metamorphism of the Lujiaping Formation at the northern Daba Mountains and its influence on shale gas reservoirs	
..... YU Chuan, WANG Shengxiu, WANG Wei, ZENG Chunlin, WANG Qiaoli, ZHANG Hualian(3470)	
Sequence division of the Longmaxi Formation and their control on shale reservoir development in Middle-Upper Yangtze	
..... XIONG Shaoyun, WANG Pengwan, HUANG Ling, ZOU Chen, HE Xunyun, LI Chang, XU Zhenyu(3487)	
Geochemical tracer of hydrocarbon migration path of Middle-Cenozoic in the south slope of the Kuqa foreland basin	
..... LIU Chun, CHEN Shijia, ZHAO Jilong, SU Zhou, CHEN Ge, LIU Xueyan, GAO Qiao(3502)	
Structural evolution and mineralogical characteristics of magmatic metamorphic coals in the Hanpoao coal mining area, Hunan Province	LI Huantong, WANG Nan, ZHU Zhirong, SHI Yuan, MO Jiafeng, ZHANG Weiguo, FANG Shiyue(3514)
Preparation of certified reference materials for rock-eval and total organic carbon of postmature source rock	
..... YANG Jiajia, SUN Weilin, XU Xuemin, QIN Jing, SHEN Bin, ZHANG Xiaotao, LI Min, WANG Shuangqing(3522)	

No. 12

A review of microbial mineralization in sandstone-hosted uranium deposits	
..... ZHAO Long, DONG Tingxu, CAI Chunfang, JIN Ruoshi, (3543)	JIANG Tingting, WEI Jialin, DU Huaming, LI Jianguo
Magma-heated geothermal systems and hydrogeochemical evidence of their occurrence	GUO Qinghai(3554)
Two New <i>Sharasargus</i> Species of Archisargidae from the Mid-Jurassic of China (Diptera: Archisargidae)	
..... WANG Junyou, FENG Cuiping, ZHANG Haoqiang, REN Dong, WANG Yongjie(3560)	
Paleo-Asian Ocean subducted slab breakoff and post orogenic extension: evidence from geochronology and geochemistry of volcanic rocks in the Hegenshan suture zone	WANG Jinfang, LI Yingjie, LI Hongyang, DONG Peipei(3580)
Evolution of regional tectonic system in the Longmenshan mountains based on plastic dislocation theory of rocks	
..... SHI Haoyu, HUANG Fuqiong, MA Nianjie, WANG Yongjian, MA Ji, ZOU Guanghua, PENG Rui(3589)	
LA-ICP-MS zircon U-Pb age and geochemistry of volcanic rocks from Manitu Formation in Hanbumiao area, the western	

Great Xing'an Range and their tectonic significance	SHAO Yongxu, LI Gangzhu, JIANG Haijiao, XU Zhan, KOU Shuai, LIAN Chenqin, HUANG Lei	(3606)
The subduction of Neoproterozoic Ocean in the Mianlue tectonic zone: evidence from zircon U-Pb age and Lu-Hf isotopes from volcanic rocks in the Zhifanggou tectonic slice, Lueyang area	XU Tong, ZHANG Xiaotuan, JIAO Jiangang, ZHANG Hongqiang, JIA Li	(3624)
Zircon U-Pb geochronology, geochemistry, and Hf isotope of the granite porphyry in the Dushugou gold deposit, Tanjianshan area, North Qaidam	LI Zhihua, LI Bile, LI Peng	(3642)
The petrogenesis of the Late Triassic granites in the Heergetou area, East Kunlun: constraints from geochronology, geochemistry and Sr-Nd-Pb isotopes	XU Bo, WANG Chengyong, LIU Jiandong, WEI Liqiong, JI Mingjia, LIU Bo, BAI Hongxi, CHEN Xiaolin, LI Xiong	(3656)
Geochemical characteristics, detrital zircon U-Pb geochronology, and its tectonic significance for the Jingzhushan Formation from northern region of Geji County, northern Tibet	LI Baolong, FAN Haibin, ZHU Dequan, PENG Bo, GUO Ping, ZHOU Lei, LI Yufei	(3673)
Evidence of rapid Miocene exhumation of the Zagros Foreland basin: constraints from apatite (U-Th)/He ages	LI Jiawei, SUN Jimin, LÜ Lixing, ZHANG Zhiliang, TIAN Shengchen, CAO Mengmeng, LI Yousheng, SU Bai	(3688)
Research advances in uranium metallogenic characteristics, mechanism and dynamic background in the Mesozoic-Cenozoic basins of the Xingmeng area, North China	LIU Bo, MIAO Aisheng, PENG Yunbiao, ZHANG Pengfei, LI Peng, SHEN Kefeng, SHI Zhiqiang	(3711)
Study of metallogenic chronology of sandstone type uranium deposits	LIN Xiaobin, LIU Hongxu, LI Xide, HAO Weilin, WANG Zhiming	(3725)
Contrast between the ore-bearing syenite porphyry and metallogenic models of the Laojiezi Pb-Ag and the Baimaju Au(Cu) deposits in the Chuxiong basin, central Yunnan, SW China	YANG Hang, WU Peng, HAN Runsheng, JIANG Longyan, TAO Qin, JIANG Xiaojun, GUAN Shenjin	(3745)
Mineralogy and elemental geochemistry of the Puxiong Nb-REE deposit in Jianshui City, southeast Yunnan Province, SW China	WANG Min, ZHOU Jiayi, LIU Fengxiang, LI Yuhua, LI Yin, LI Mingxiao, ZHANG Zijun, WANG Changbin	(3760)
The characteristics of primary halos zoning of the Jingcun gold deposit in Guangdong Province: implications for deep prospecting	HE Changkun, CHEN Cheng, XU Deru, JIAO Qianqian, HUANG Xiaorong, CHEN Genwen, LIU Wenlian, SHI Shuang	(3775)
Study of chemical composition characteristics of ore mineral in the Kaerqueka copper-polymetal deposit, Qinghai Province	YU Juan, YI Liwen, XIE Binggeng, LI Xiaoqing, LU Anhuai, GU Xiangping, CAO Li, LIU Cheng'ai, ZHANG Miao	(3789)
Characteristics of cyclic deposition and sea level changes of the Taiyuan Formation in Yuzhou City of western Henan Province	SONG Huibo, HUANG Zhiwei, HU Bin, LI Juan, ZHENG Fengli, AN Hongliang	(3802)
Palaeo climate analysis of the Upper Permian Sunjiagou Formation in the Yiyang area, western Henan	QI Shuaishuai, WANG Yanpeng, PENG Bingrou, ZHANG Biyun, NING Shuyuan, LIU Xiaoling, ZHENG Deshun	(3818)
Study of the salt-formation and sedimentary evolution model of the Upper Ordovician Majiagou Formation in the Yan'an area	WU Haiyan, LIANG Ting, CAO Hongxia, QIAO Xiangyang, WANG Kai, LI Keyong, YU Jun, GUO Yanqin	(3829)
Trace elements as paleo sedimentary environment indicators: a case study of the Paleogene Anjihaihe Formation in the northwestern Junggar basin	WANG Tong, ZHU Xiaomin, DONG Yanlei, CHEN Hehe, SU Bin, LIU Yu, WU Wei	(3851)
The variation of carbonate lysocline depth in the western tropical Pacific Ocean	QI Zekun, XU Jishang, LI Guangxue, ZHAO Mengwei, ZHAI Ke, LONG Haiyan, XIONG Mengjun	(3863)
Paleo climate information recorded by peat lipid molecules in the Athabasca region, Canada	HE Dashuang, HUANG Haiping, HOU Dujie, ZHANG Penghui	(3878)
Contents of Vol. 94, Nos. 1~12		(3888)